

4-10-77 Well Completed
9-1-77 Initial Production

FILE NOTATIONS

Entered in NID File

Entered on D.H. Sheet

Location Map Pinned

Card Indexed

IWR for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed

OW

WW

TA

GW

OS

PA

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log

Electric Logs (No.)

E

I

E-I

GR

CR-N

Micro

Lat

Mi-L

Sonic

Others

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

CIG EXPLORATION, INC.

3. ADDRESS OF OPERATOR

P. O. BOX 749 - DENVER, COLORADO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1028' FWL & 1610' FSL, SECTION 22, T10S, R22E

At proposed prod. zone

SAME AS ABOVE - PLAT ATTACHED

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

APPROXIMATELY 16 MILES SOUTHEASTERLY FROM OURAY, UTAH

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1028'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

16. NO. OF ACRES IN LEASE

2,040.00

17. NO. OF ACRES ASSIGNED

TO THIS WELL
640.00

19. PROPOSED DEPTH

9,300'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,325' UNGR. GR.

22. APPROX. DATE WORK WILL START*

JANUARY 10, 1977

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/4	13-3/8	42#	75'	150 SXs
11	8-5/8	24#	2,500'	1000 SXs
7-7/8	4-1/2	13.5#	9,300'	1500 SXs

SEE ATTACHED SUPPLEMENTS FOR ADDITIONAL INFORMATION

1. 10-POINT PROGRAM
2. BOP SCHEMATIC
3. 12-POINT PROGRAM
4. PLAT
5. PROPOSED GAS WELL PRODUCTION HOOKUP

Approval notice - Version 9 of well, Gas, & Mining - Litch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

ROBERT G. MERRILL

TITLE

AREA ENGINEER

DATE

DECEMBER 17, 1976

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

J. W. GUYNN

TITLE

DATE

JAN 19 1977

CIGE 1-22-10-22

NW/4 SW/4 SECTION 29, T10S, R22E
UINTAH COUNTY, UTAH

10-POINT PROGRAM

1. Geologic name of surface formation:
 Uinta Formation

2. Estimated tops of important geologic markers:

Wasatch	4040
Mesaverde	6150
Castlegate	8600
Mancos	8900

3. Estimated depths at which anticipated water, oil, and gas are expected to be encountered:

Wasatch	4050 - Gas
Mesaverde	6150 - Gas
Castlegate	8600 - Gas

4. Proposed casing program, including size, grade, and weight per foot of each string and whether new or used:

13-3/8" at 75'	48#, H-40, STC	New
8-5/8" at 2,500'	24#, K-55, STC	New
4-1/2" at 9,300'	13.5#, N-80, LTC	New

5. Operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings, and testing procedures and testing frequency.

Bottom:

3000# BOP W/4-1/2" pipe rams
3000# BOP W/blind rams
3000# Hydril

Top: Grant rotating head

Manifold includes appropriate valves, positive and adjustable chokes and kill line, to control abnormal pressures.

BOP's will be tested at installation and will be cycled on each trip.

6. The type and characteristics of the proposed circulating medium to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained:

The well will be drilled with fresh water from surface to 4,500' with a weight of 8.4 to 9.0 ppg. From 4,500 to 9,300', the well will be drilled with salt water mud with a weight from 8.5 to 10.0 ppg. Sufficient weighting material (barite) will be on location to increase the mud weight if abnormal pressure is encountered.

7. Auxiliary equipment to be used:
 - a. kelly cock
 - b. monitoring equipment on the mud system
 - c. a sub on the floor with a full opening valve to be stabbed into the drill pipe when the kelly is not in the string

8. Testing, logging and coring program to be followed:
No DST's are planned
No coring is planned
Logs: DLL
GR-Sonic
GR-FDC/CNL

9. Any anticipated abnormal pressures or temperatures expected to be encountered:
No abnormal pressures or temperatures expected
No hydrogen sulfide expected

10. The anticipated starting date and duration of the operation:
Starting Dated: January 10, 1976
Duration: Six Weeks

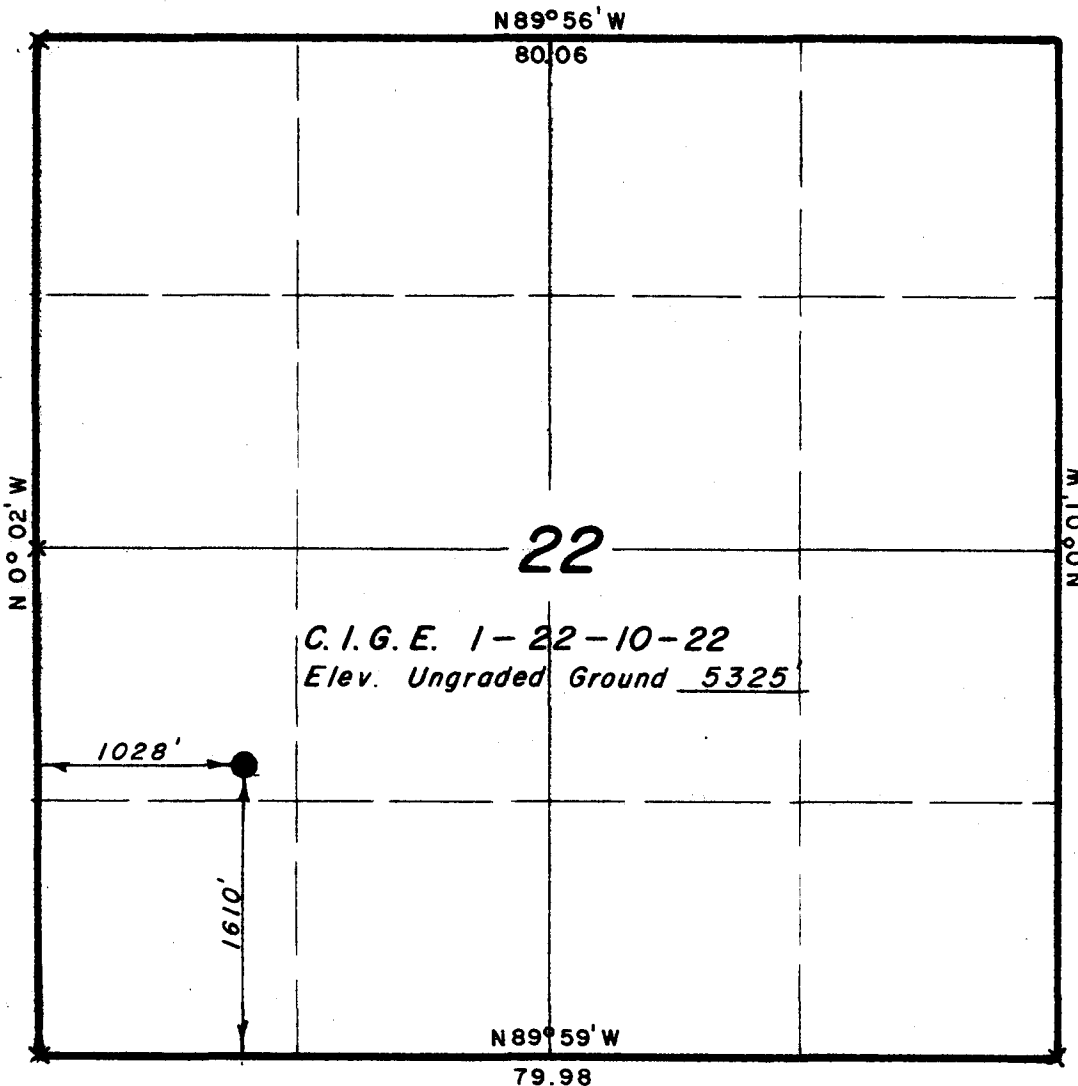
U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
CIG Exploration, Inc. CIGE 1-22-10-22	1028 FW, 1610 FS, Sec 22, T.10S., R.22 E., Uintah County, Utah	U-01198 B
<p>1. Stratigraphy and Potential Surface: Uintah Fm. Proposed drilling to T.D. of 9,300' Oil and Gas Horizons. Designed to test Wasatch, Mesaverde, and Castlegate Fms for natural gas. Definitive tops anticipated as follows: Wasatch Fm - 4040'; Mesaverde Fm - 6150'; Castlegate SS - 8600'; and Mancos Fm - 8900' ^u (Green River Fm - 1,825')_o</p> <p>2. Fresh Water Sands. Fresh water may be encountered in Uintah Fm and the Green River Fm.</p> <p>3. Other Mineral Bearing Formations. Beds of coal (too deep to mine) may be penetrated in the Mesaverde - Castlegate rocks; solid hydrocarbon including bituminous sandstone and/or sills of gilsonite may be encountered in Uintah - Green River sequence; beds of oil shale are likely in the Green River Fm.</p> <p>4. Possible Lost Circulation Zones. No positions where lost circulation is considered highly probable.</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. None predictable.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Above normal P, T conditions are unlikely.</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Probably adequate for needs.</p> <p>8. Additional Logs or Samples Needed. Logging programmed on APD is adequate.</p> <p>9. References and Remarks Location is within Bitter Creek KGS. USGS Files, SLC, UT</p>		
<p>Date: 01-11- ORIGINAL FORWARDED TO CASPER DOBm - Utah</p> <p align="right">Signed: Donald C. Alvord</p>		

T10S, R22E, S. L. B. & M.



X = Section Corners Found & Used.

PROJECT
C.I.G. EXPLORATION, INC.

Well location, C.I.G.E. 1-22-10-22,
located as shown in the NW1/4 SW1/4
Section 22, T10S, R22E, S.L.B. & M.,
Uintah County, Utah.



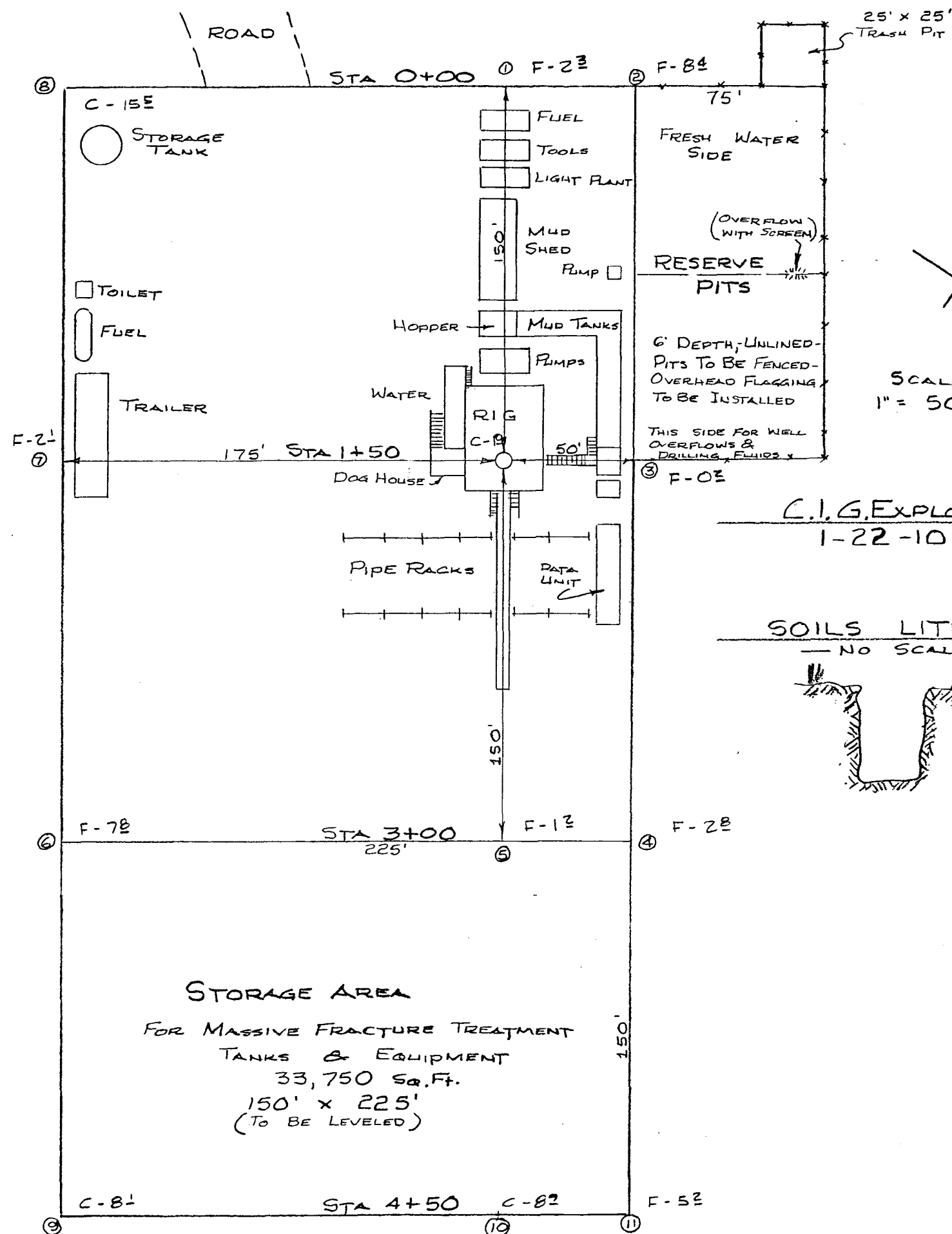
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence C. Taylor
REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

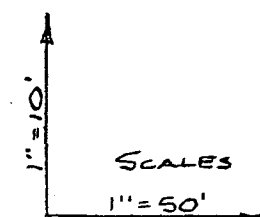
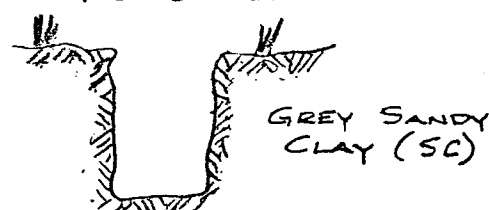
SCALE 1" = 1000'	DATE 2 December 1976
PARTY R.K., D. B. & D.D.	REFERENCES GLO Plat
WEATHER Cold	FILE CIG Exploration, Inc.



SCALE
1" = 50'

C.I.G. EXPLORATION
1-22-10-22

SOILS LITHOLOGY
— NO SCALE —

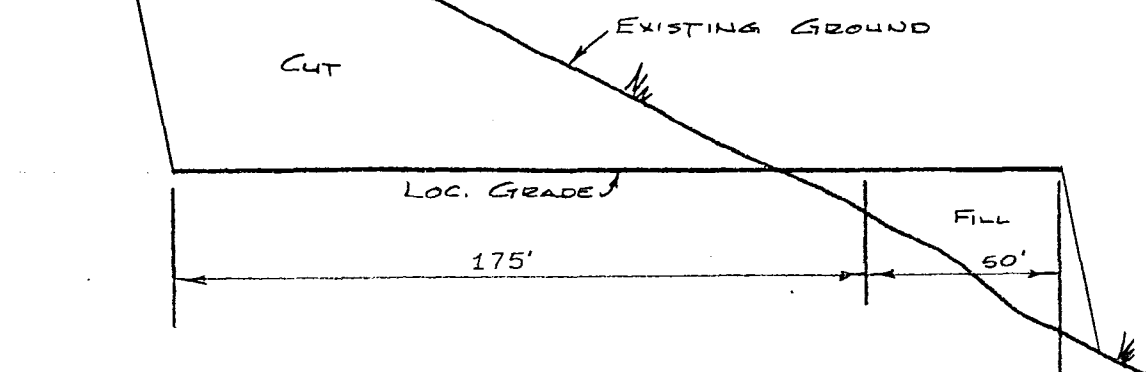


APPROX YARDAGES

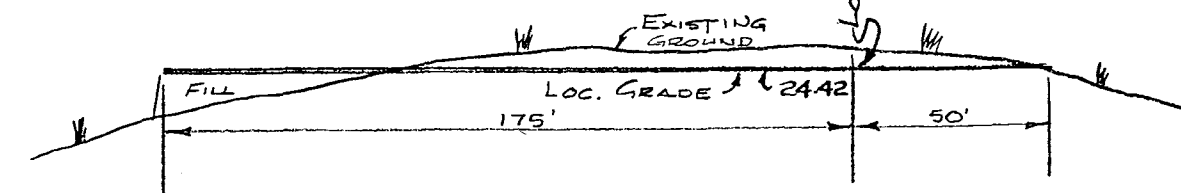
CUT	8774 YDS
FILL	6944 YDS

CROSS SECTIONS

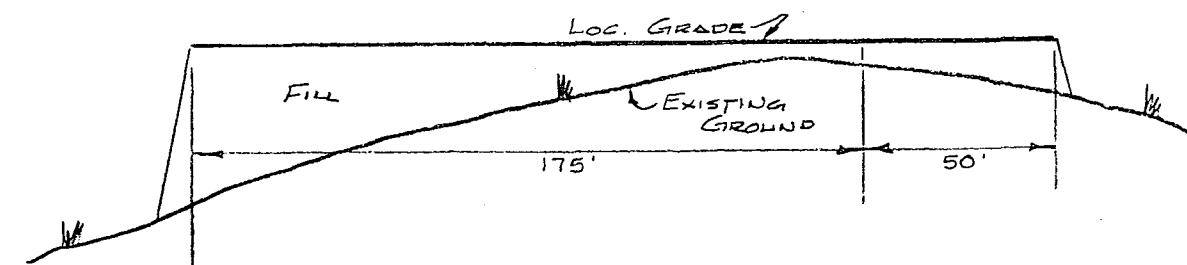
STA 0+00



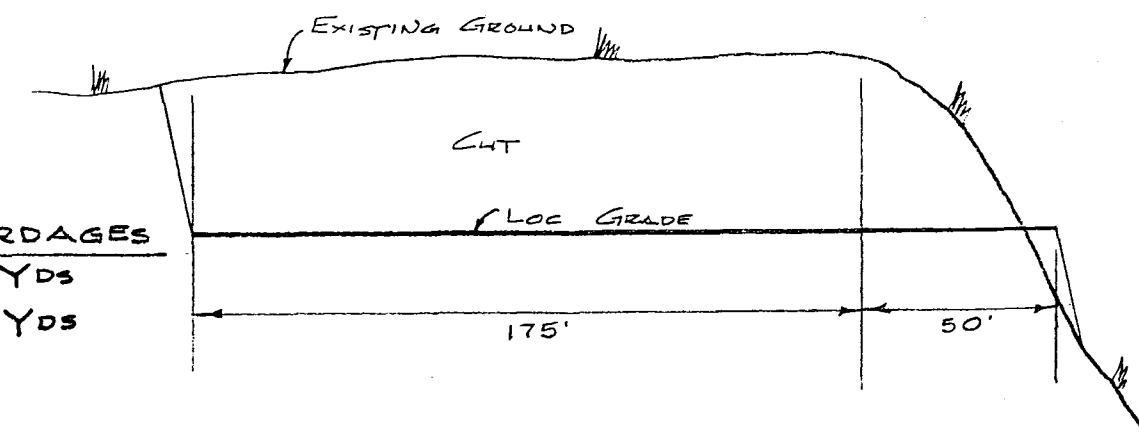
STA 1+50



STA 3+00



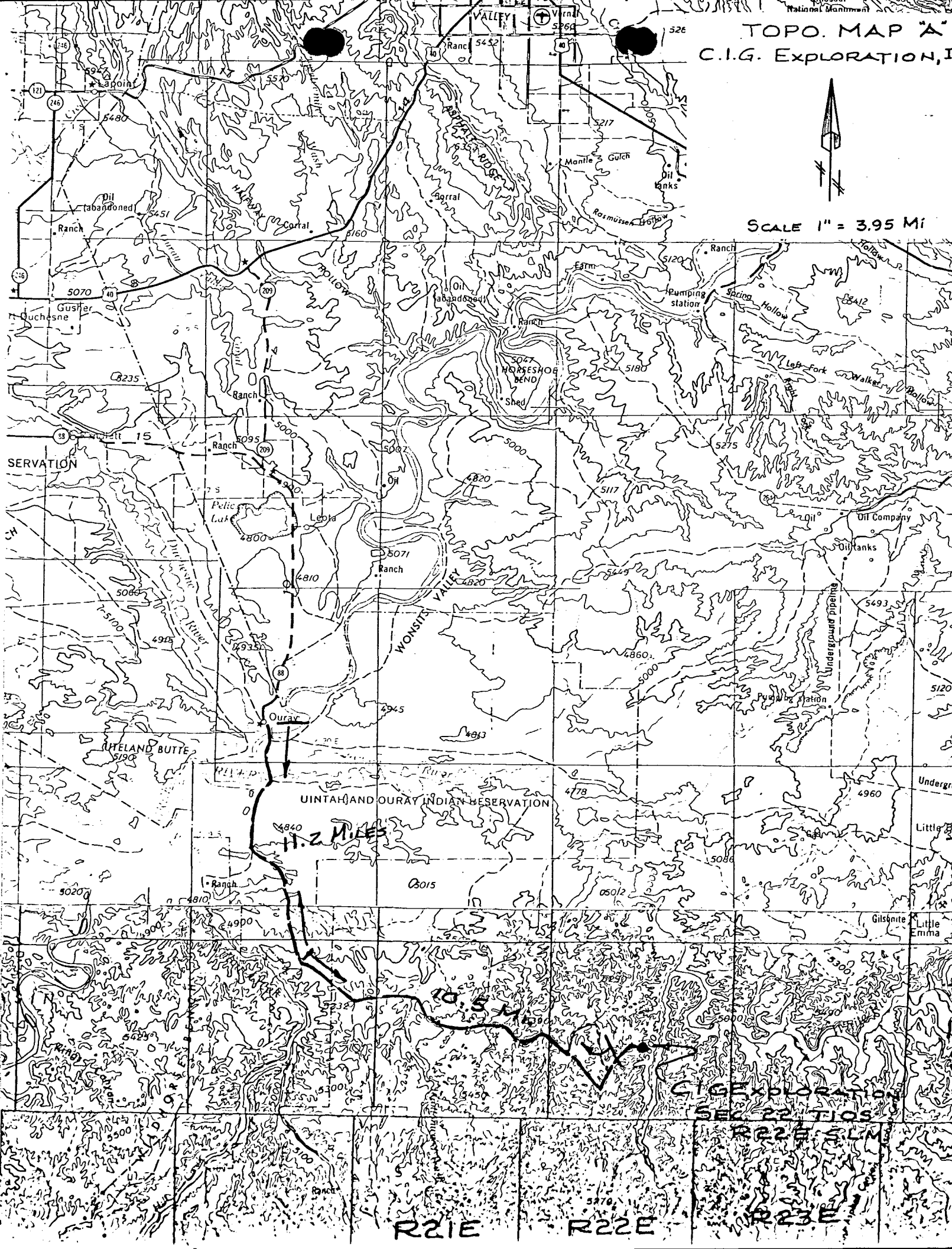
STA 4+50



TOPO. MAP "A"
C.I.G. Exploration, I



SCALE 1" = 3.95 Mi



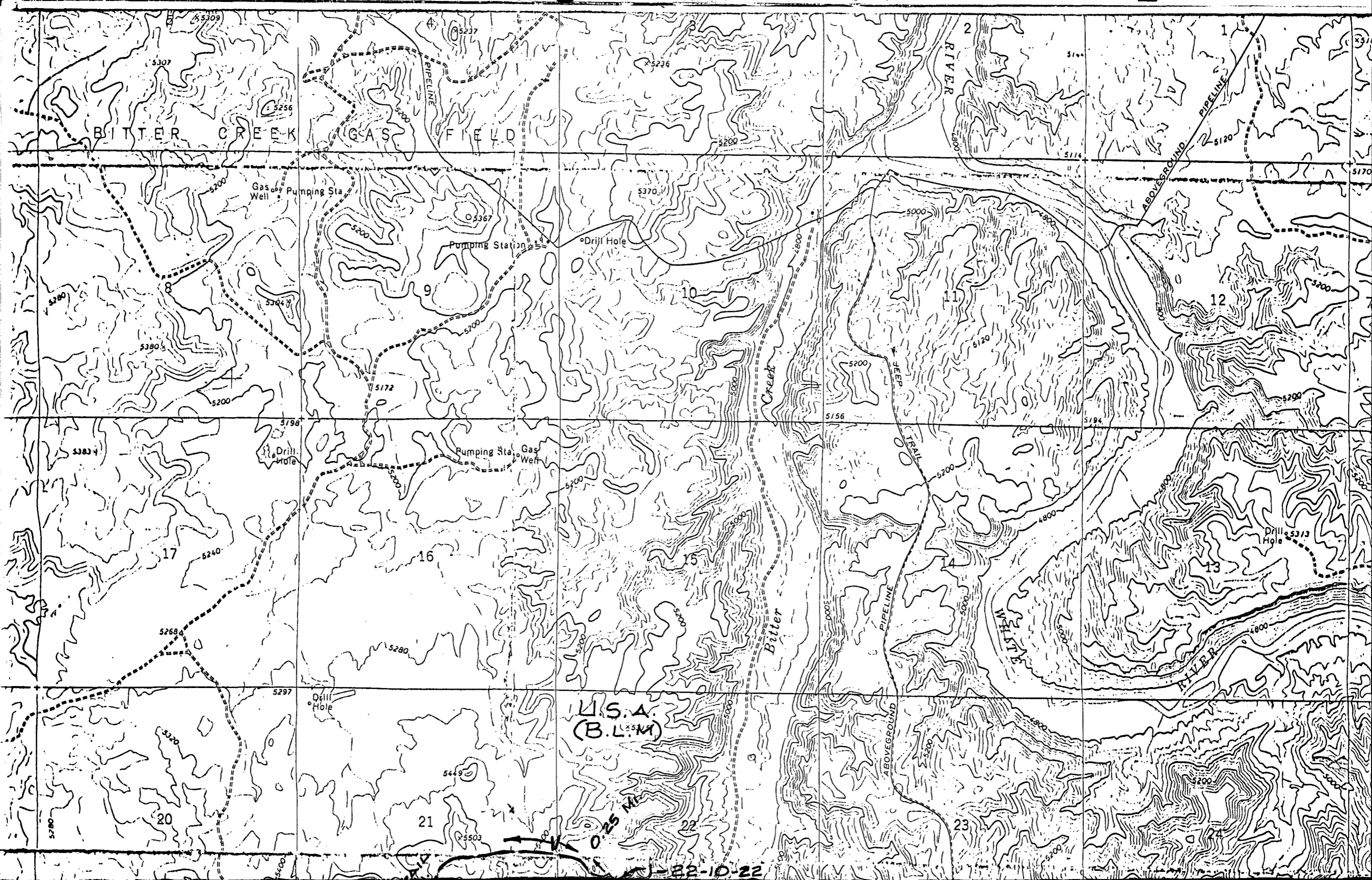
R21E

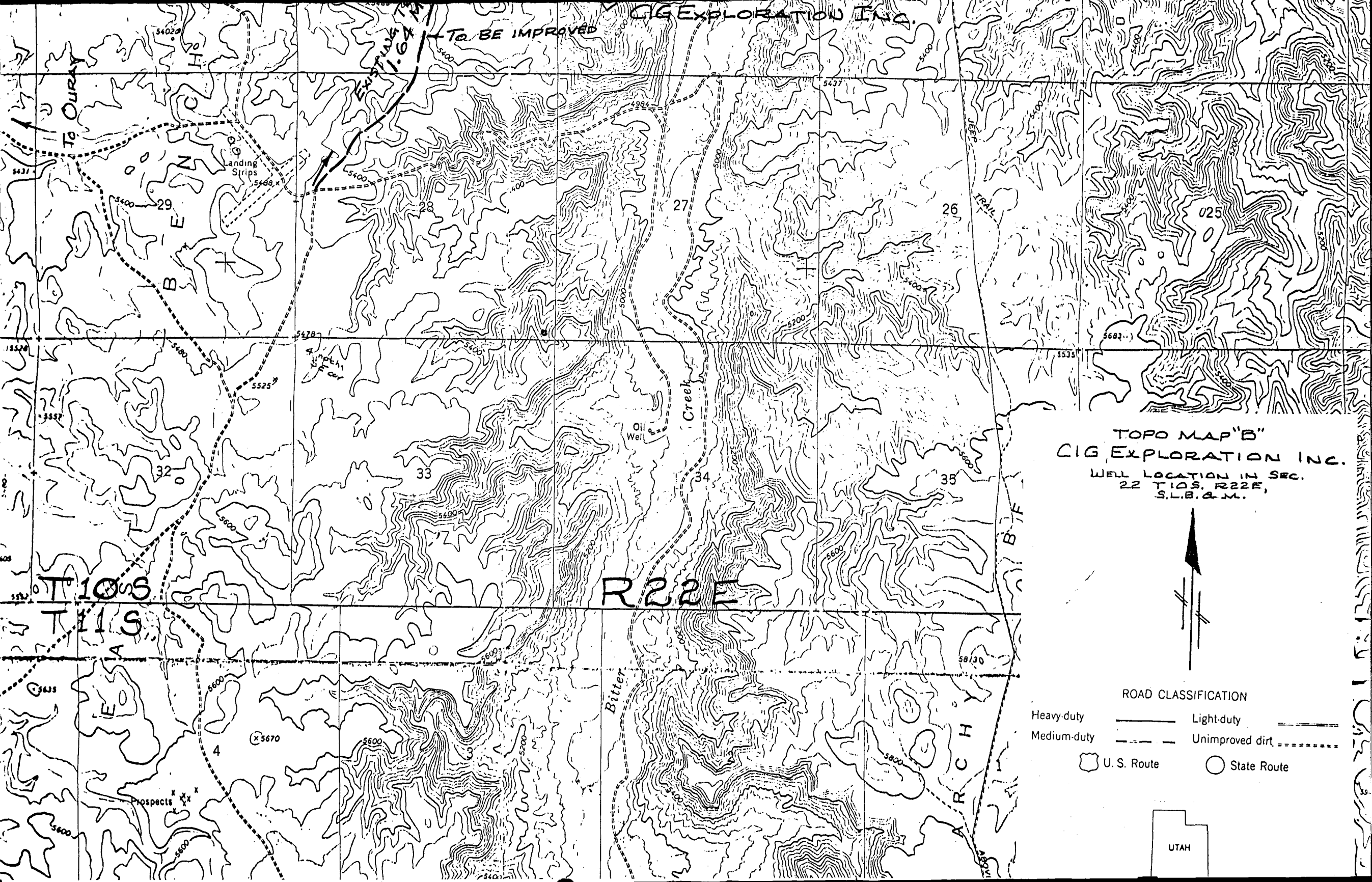
R22E

R23E

C.I.G. EXPLORATION
SEC. 22 T10S

R22E SLM





CIG EXPLORATION INC.

TO BE IMPROVED

EXISTING 1.64 MI

TO OURAY

LANDING STRIPS

OIL WELL

CREEK

BITTER

ARCHY

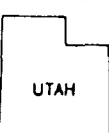
JEFF TRAIL

TOPO MAP "B"
CIG EXPLORATION INC.
WELL LOCATION IN SEC.
22 T10S, R22E,
S.L.B. & M.



ROAD CLASSIFICATION

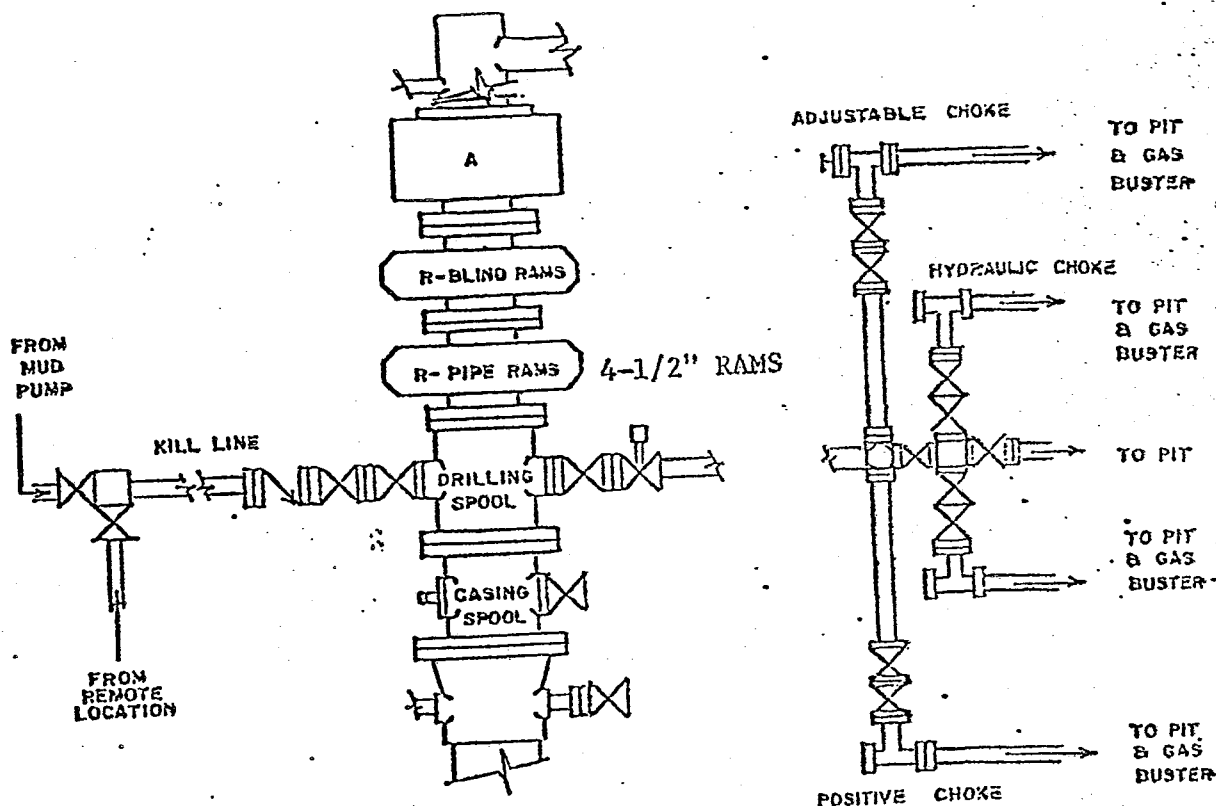
- Heavy-duty ———
- Medium-duty - - - -
- Light-duty ———
- Unimproved dirt - - - - -
- U. S. Route (shield symbol)
- State Route (circle symbol)



UTAH

3000 psi

psi Working Pressure BOP's



Test Procedure

- 1) Flush BOP's and all lines to be tested with water.
- 2) Run test plug on test joint and seat in casing head (leave valve below test plug open to check for leak).
- 3) Test the following to rated pressure:
 - a) inside blowout preventer
 - b) lower kelly cock
 - c) upper kelly cock
 - d) stand pipe valve
 - e) lines to mud pump
 - f) kill line to BOP's
- 4) Close and test pipe rams to rated pressure.
- 5) Close and test Hydril to rated pressure.
- 6) Back off and leave test plug in place. Close and test blind rams to rated pressure.
- 7) Test all choke manifold valves to rated pressure.
- 8) Test kill line valves to rated pressure.

CIG EXPLORATION, INC.

12 POINT SURFACE USE PLAN

FOR

WELL LOCATION

C.I.G.E. 1-22-10-22

LOCATED IN

SECTION 22, T10S, R22E, SLB & M

Uintah County, Utah

1. EXISTING ROADS

See attached Topographic Map "A" - to reach the C.I.G. Exploration, Inc. well location (G.I.G.E. 1-22-10-22) located in Section 22, T10S, R22E, SLB&M from Vernal, Utah.

Proceed west from Vernal along U.S. Highway 40 to the junction of U. S. Highway 40 and Utah State Highway 209 (Ouray Turn-off). Proceed south along Route 209 to its junction with State Highway 88. Proceed south along 88 to Ouray, Utah, thence proceed south from Ouray 9+ miles to a junction of this road and one proceeding south; thence proceed in a southeasterly direction along the Seep Ridge road 2.3 miles to an intersection with a service road that runs east. Proceed in an easterly direction along this road 10.4 miles to an old dirt landing strip (there are numerous roads that branch off this last described section to the north and south). Then proceed in a southeasterly direction along the landing strip 0.5 mile to the intersect of the planned access road to the well location C.I.G.E. 1-22-10-22, and this is discussed further in #2.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

After leaving the road described in Item 1. there will have to be some minor work done to touch up the existing trail for 1.65 miles that will require a cat and patrol; then from the end of this trail there will have to be 0.25 miles of completely new road built to reach the proposed location site.

This proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run off from any normal meteorological conditions that are prevalent to this area.

The grade of this road will vary from flat to 8%, but will not exceed this amount. The road will be constructed from native borrow accumulated during construction.

The terrain that is traversed by this road is relatively flat and traverses a ridge and is vegetated with sparse amounts of sagebrush, rabbit brush, and grasses.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no other wells within a one mile radius of the proposed well site. (See location plat for placement of C.I.G. Exploration Corporation well location within the section.)

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

All petroleum production facilities are to be contained within the proposed location site. There are no other C.I.G. Exploration, Incorporated flow, gathering, injection, or disposal lines within a one mile radius of this location.

In the event production is established, plans for a gas flow line from this location to existing gathering line or a main production line shall be submitted to the appropriate agencies for approval.

5. LOCATION AND TYPE OF WATER SUPPLY

Water used to drill this well is to be pumped from a flowing well, 4 miles to the west from the location site.

In the event water is not available from this well, it would require that the water be hauled from the White River for a distance of 8 miles if hauled up Bitter Creek or 24 miles if hauled along main road from Ouray, Utah.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time.

7. METHODS FOR HANDLING WASTE DISPOSAL

All garbage and trash that can be burned, shall be burned. All unburnable garbage and trash accumulated during development of this well shall be contained in the trash pit shown on the attached location layout sheet.

When drilling activities have been completed, the rig moved off the location and production facilities set up, all garbage and trash on the location site shall be cleaned up, deposited in the trash pit, and covered with a minimum 4' of cover.

All production waste such as cuttings, salts, chemicals, overflows of condensate, water, and drilling fluids shall be contained in the west cell of the reserve pit and upon completion of drilling activities, buried with a minimum of 4' of cover.

A portable chemical toilet will be supplied for human waste. (See end paragraph in Item No. 10.)

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached location layout plat. The Bureau of Land Management District Manager or other appropriate agencies shall be notified before any construction begins on the proposed location site. When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil in the area, all topsoil will be stripped and stockpiled prior to drilling activities on the well site only (see Item No. 9). When all production activities have been completed, the location site, access road, and flowline route will be reshaped as near as possible to the original contour, prior to construction, and the topsoil on the location only spread over the disturbed area. Any drainages re-routed during the construction and production activities shall be restored to their original line of flow.

10. PLANS FOR RESTORATION OF SURFACE (CONTINUED)

All additional wastes being accumulated during production activities and contained in the reserve pit and trash pit shall be buried with a minimum four feet of cover. The location site, access road, and flowline route shall be reseeded with a seed mixture recommended by the Bureau of Land Management District Manager, when the moisture content of the soil is adequate for germination.

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

The lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in the best and most workmanlike manner and in strict conformity with the above mentioned Item No. 7 and No. 10.

11. OTHER INFORMATION

The topography of the general area. The location, C.I.G.E. 1-22-10-22, is located on a bench area that extends in a north south direction and lies between two major drainages known as Sand Wash on the west and Bitter Creek on the east and ends at the White River to the north, is the only flowing stream in the area that has a year round flow.

The majority of the numerous washes and streams in the area are of a non-perennial nature, flowing during the early spring run-off, and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

The topography of the area slopes from the rim of the Book Cliff Mountains to the south to the White River to the north. The area is interlaced with numerous canyons and ridges which are extremely steep, with numerous ledges formed in sandstones, conglomerates and shale deposits.

The soils of this semi-arid area are of the Uinta Formation and Duchesne River Formation (the Fluvial Sandstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (gravel surfaces). It consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The top soils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) type soil, with outcrops of solid rock (sandstone).

Due to the low precipitation average, climate conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations, it consists of, as primary flora, areas of sagebrush, rabbitbrush, some grasses, and cacti, and large areas of bare soils devoid of any growth.

11. OTHER INFORMATION (Continued)

The fauna of the area consists predominately of the coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing sheep.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The immediate area surrounding the location site is vegetated with sparse amounts of sagebrush and grasses.

The terrain in the immediate vicinity of the location slopes to the south-east and slopes through the location site at approximately a 1% grade, then falls steeply into the canyon formed by Bitter Creek.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B".)

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Robert G. Merrill
P.O. Box 749
Denver, Colorado 80201

Bus. Phone (303) 572-1121

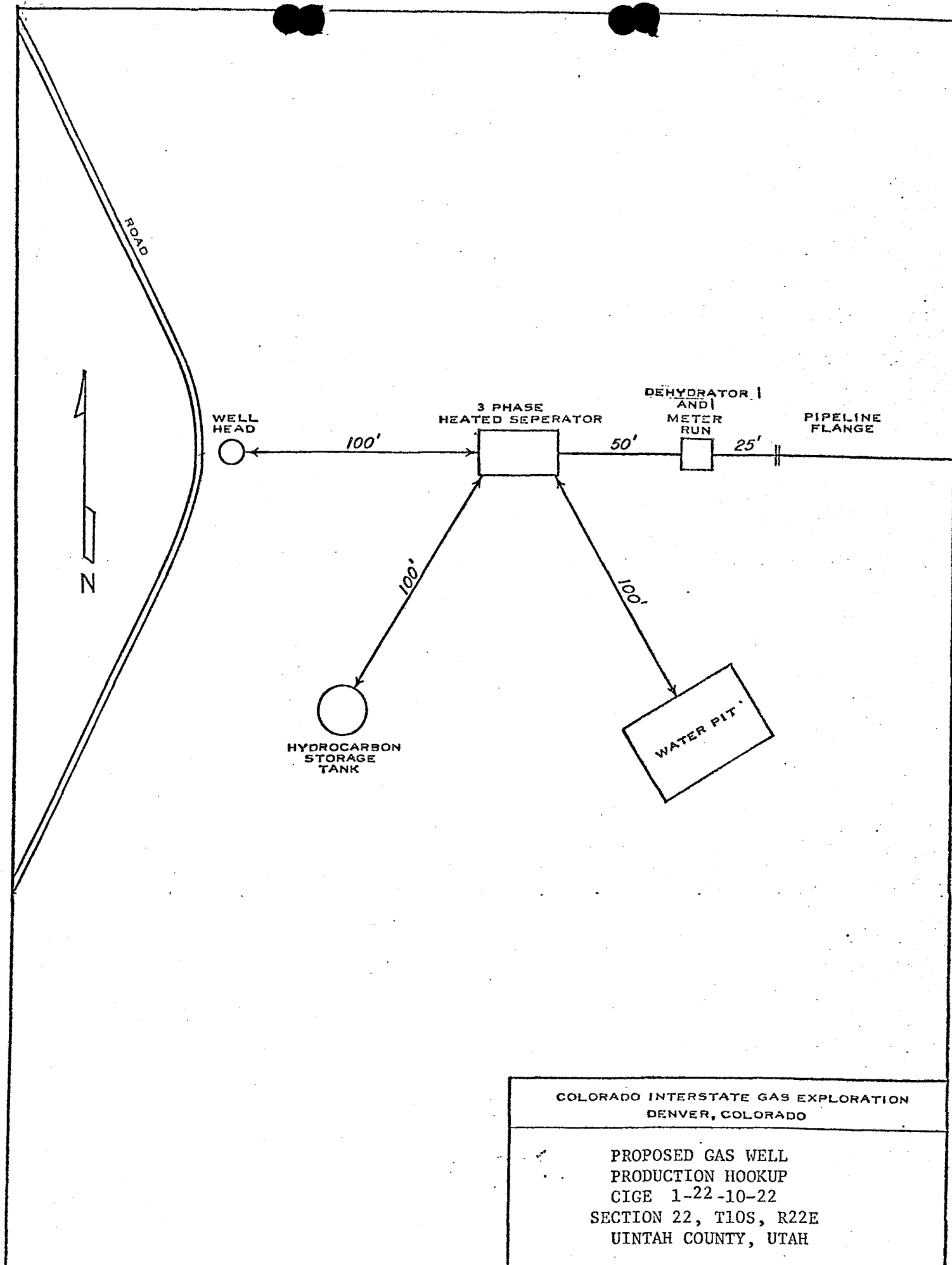
CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by C.I.G. Exploration, Inc., and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

DEC 17 1976

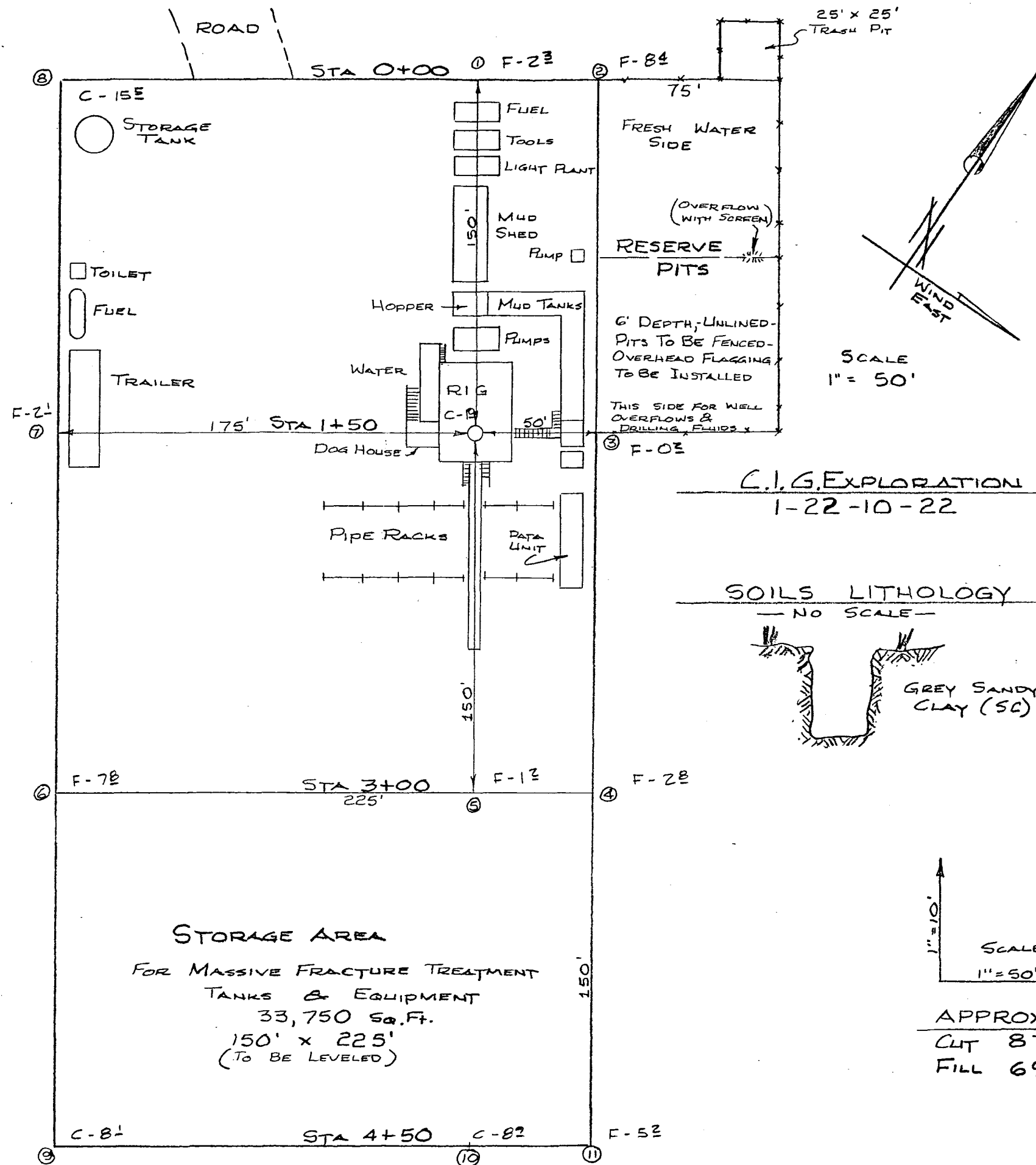
DATE


Robert G. Merrill
Area Engineer



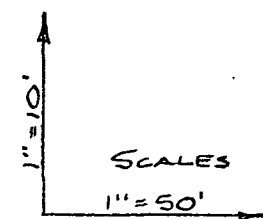
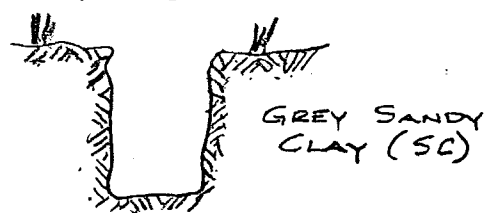
COLORADO INTERSTATE GAS EXPLORATION
DENVER, COLORADO

PROPOSED GAS WELL
PRODUCTION HOOKUP
CIGE 1-22-10-22
SECTION 22, T10S, R22E
UINTAH COUNTY, UTAH



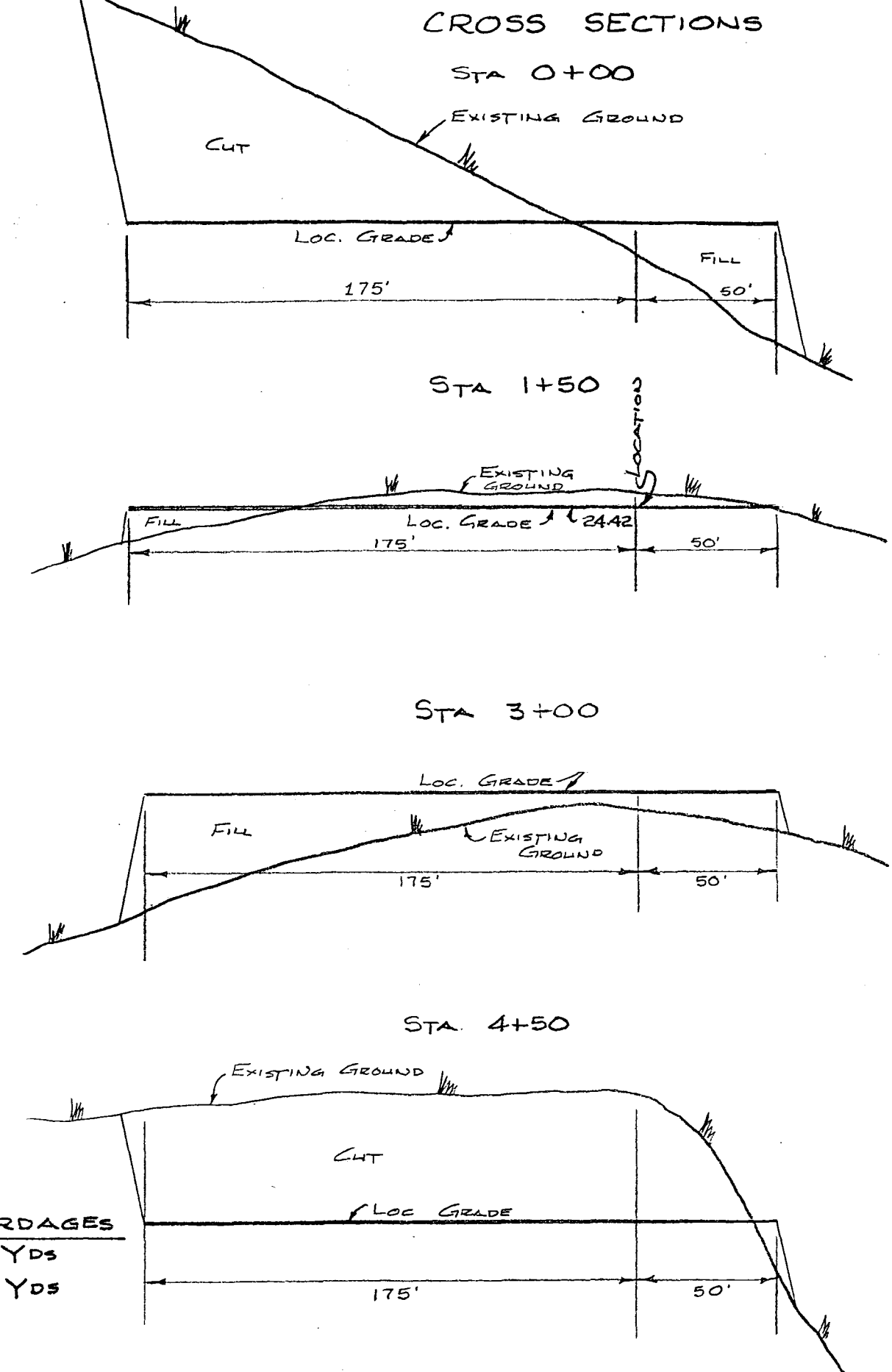
C.I.G. EXPLORATION
1-22-10-22

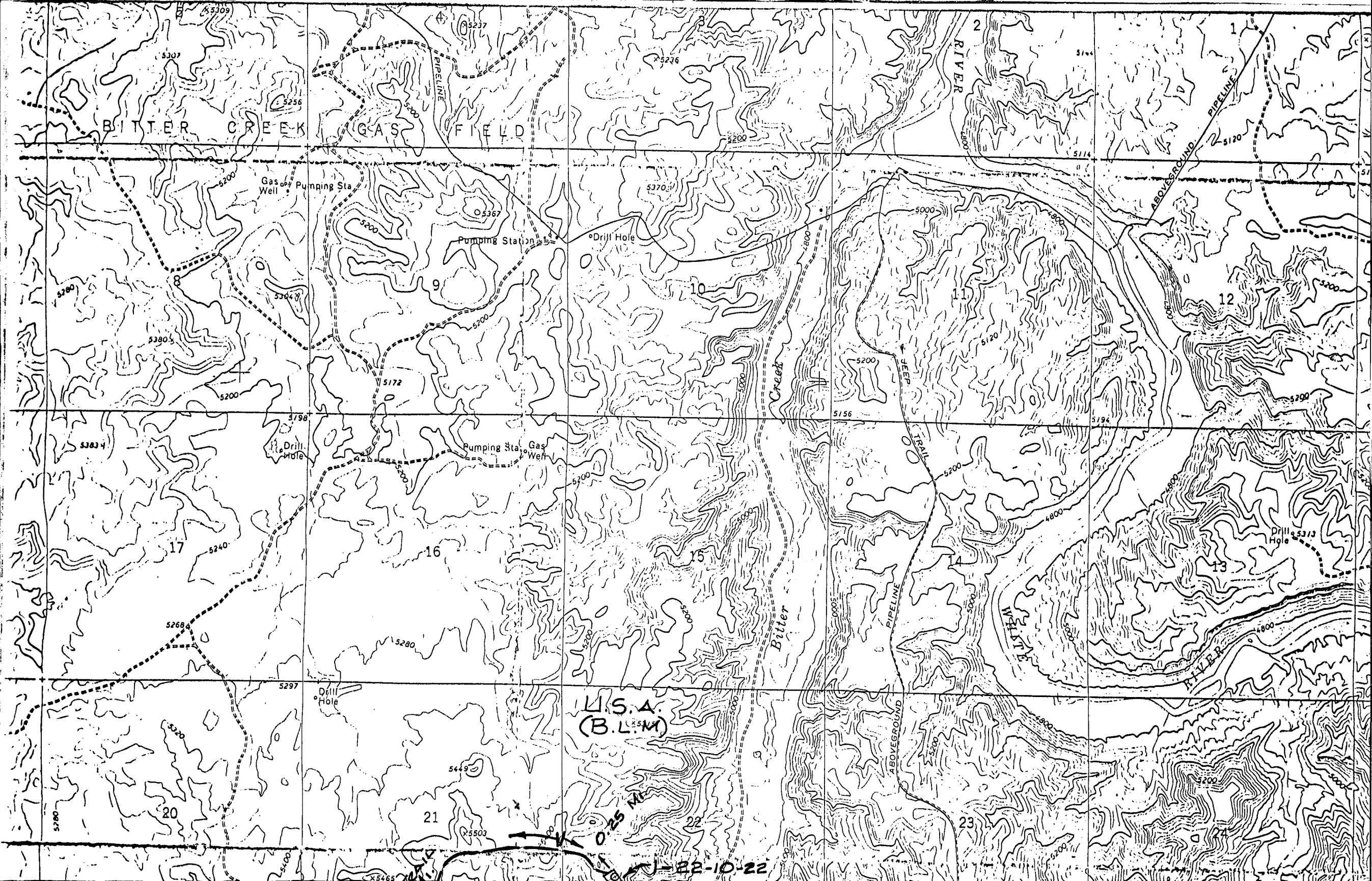
SOILS LITHOLOGY
— NO SCALE —

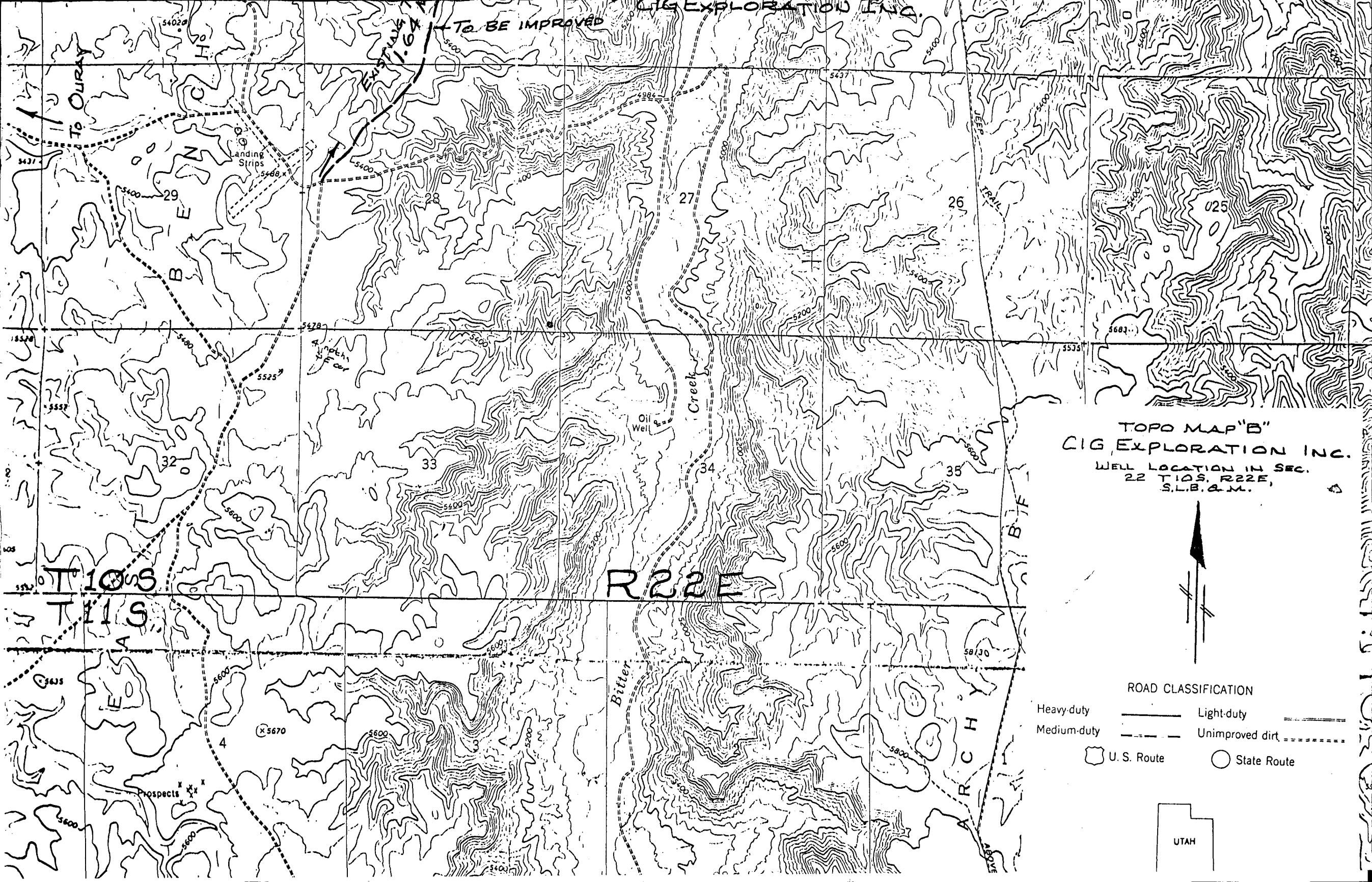


APPROX YARDAGES

CUT	8774 YDS
FILL	6944 YDS







CIG EXPLORATION INC.

TO BE IMPROVED

EXISTING 1.64 MI

TO OURAY

Landing Strips

Oil Well

Creek

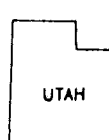
Jeep Trail

TOPO MAP "B"
CIG EXPLORATION INC.
WELL LOCATION IN SEC.
22 T10S, R22E,
S.L.B. & M.



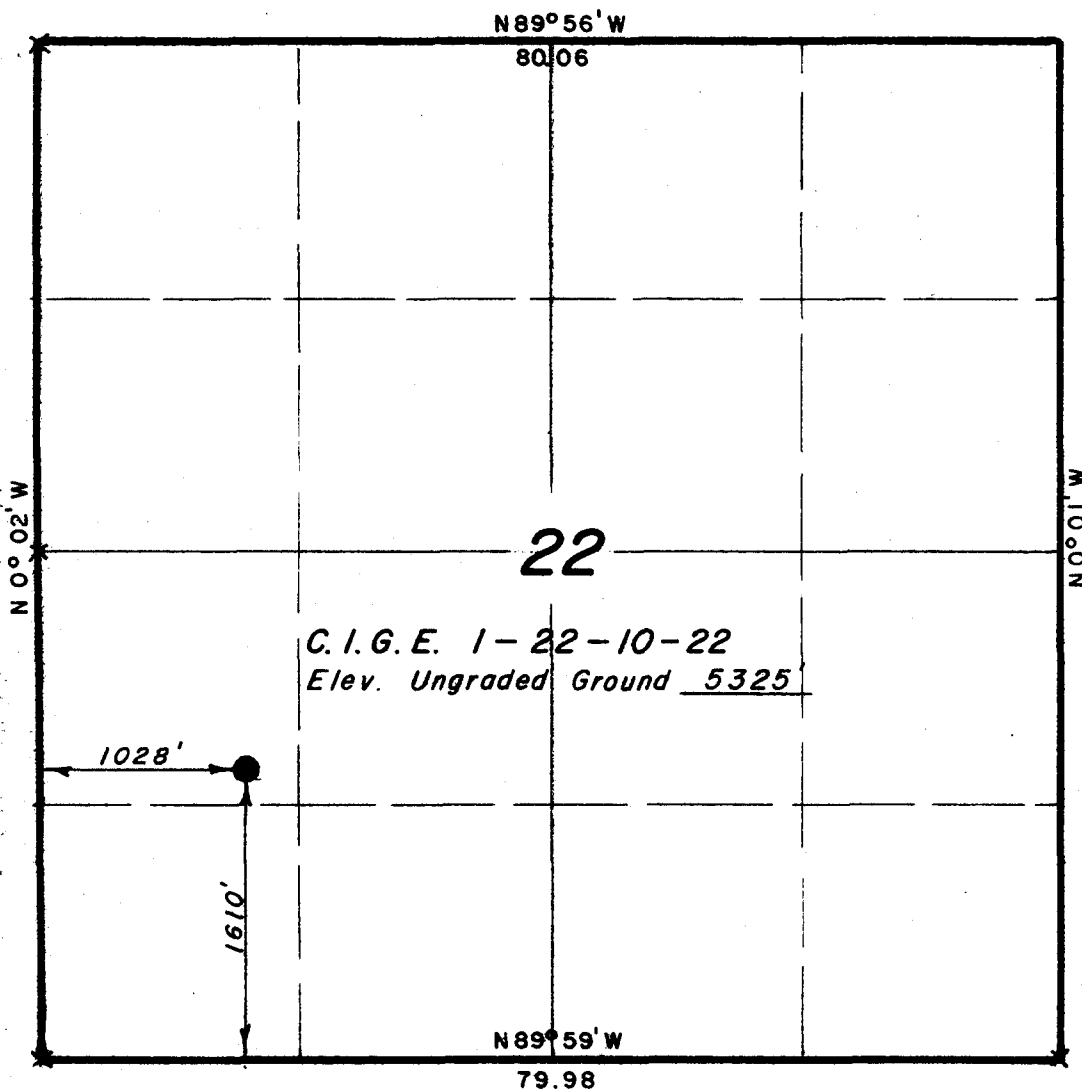
ROAD CLASSIFICATION

- | | | | |
|-------------|-----------|-----------------|-----------|
| Heavy-duty | ————— | Light-duty | |
| Medium-duty | - - - - - | Unimproved dirt | - . - . - |
| U. S. Route | □ | State Route | ○ |



UTAH

T10S, R22E, S. L. B. & M.



X = Section Corners Found & Used.

PROJECT

C.I.G. EXPLORATION, INC.

Well location, C.I.G.E. 1-22-10-22,
located as shown in the NW1/4 SW1/4
Section 22, T10S, R22E, S.L.B. & M.,
Uintah County, Utah.



CERTIFICATE

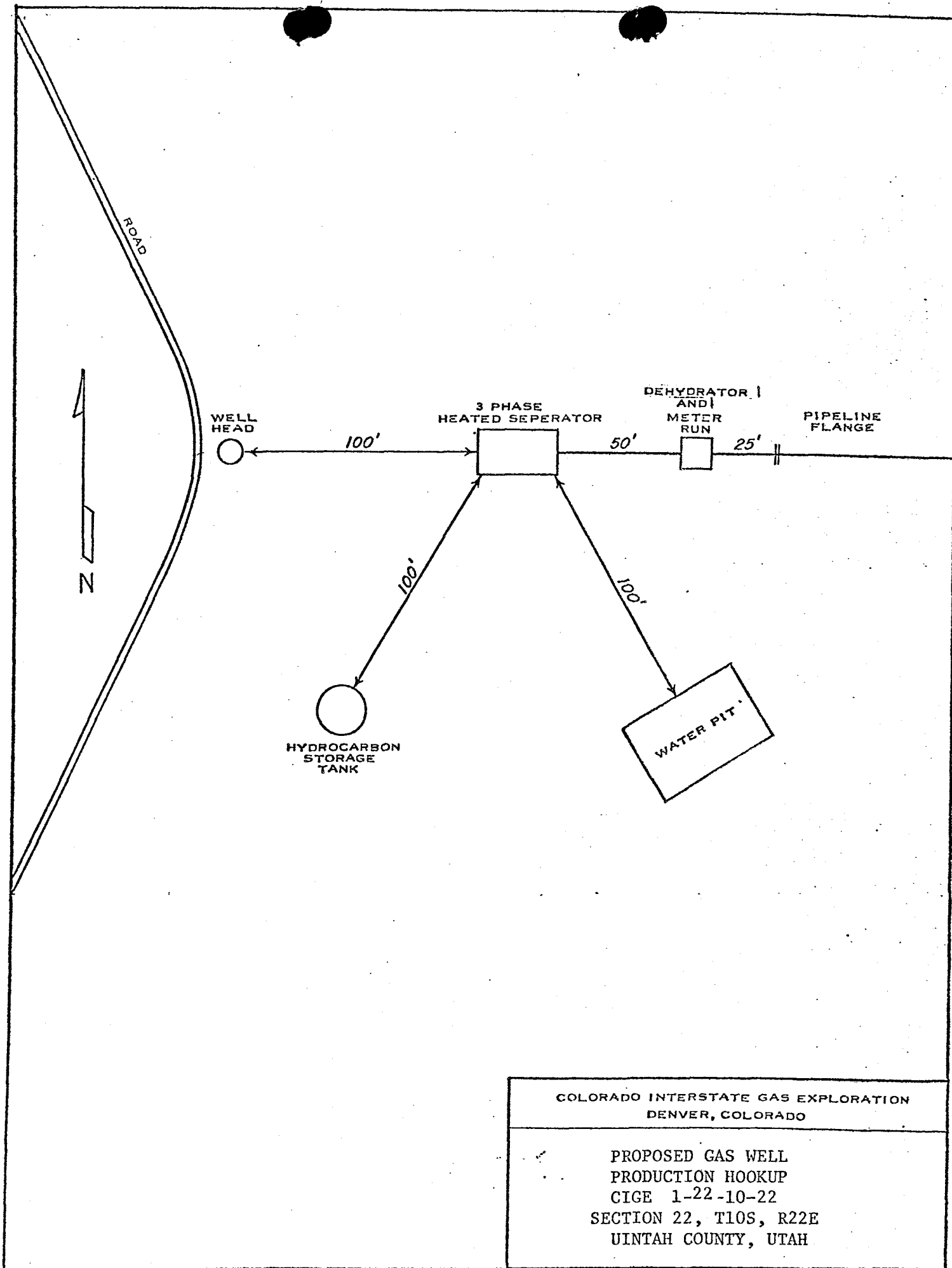
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence C. Ray

REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 2 December 1976
PARTY R.K., D.B. & D.D.	REFERENCES GLO Plat
WEATHER Cold	FILE CIG Exploration, Inc.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-01198-B
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR CIG EXPLORATION, INC.		7. UNIT AGREEMENT NAME NATURAL BUTTES UNIT
3. ADDRESS OF OPERATOR P. O. BOX 749 - DENVER, COLORADO 80201		8. FARM OR LEASE NAME NATURAL BUTTES UNIT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1028' FWL & 1610' FSL, SECTION 22, T10S, R22E At proposed prod. zone SAME AS ABOVE - PLAT ATTACHED		9. WELL NO. CIGE 1-22-10-22
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* APPROXIMATELY 16 MILES SOUTHEASTERLY FROM OURAY, UTAH		10. FIELD AND POOL, OR WILDCAT BITTER CREEK FIELD
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1028'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 22, T10S, R22E
16. NO. OF ACRES IN LEASE 2,040.00		12. COUNTY OR PARISH UINTAH
17. NO. OF ACRES ASSIGNED TO THIS WELL 640.00		13. STATE UTAH
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A		19. PROPOSED DEPTH 9,300'
20. ROTARY OR CABLE TOOLS ROTARY		21. APPROX. DATE WORK WILL START* JANUARY 10, 1977
22. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,325' UNGR. GR.		

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/4	13-3/8	42#	75'	150 SXs
11	8-5/8	24#	2,500'	1000 SXs
7-7/8	4-1/2	13.5#	9,300'	1500 SXs

SEE ATTACHED SUPPLEMENTS FOR ADDITIONAL INFORMATION

1. 10-POINT PROGRAM
2. BOP SCHEMATIC
3. 12-POINT PROGRAM
4. PLAT
5. PROPOSED GAS WELL PRODUCTION HOOKUP

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 12/20/76

BY: *Elmer B. Fyke*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Robert G. Merrill TITLE AREA ENGINEER DATE DECEMBER 17, 1976
ROBERT G. MERRILL

(This space for Federal or State office use)

PERMIT NO. 43-047-30251 APPROVAL DATE _____APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



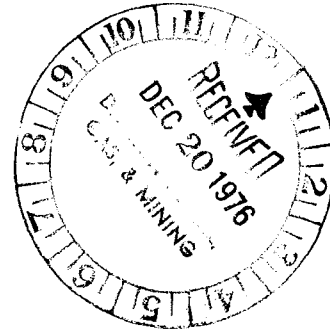
CIG Exploration, Inc.

A Subsidiary of Coastal States Gas Corporation

2100 PRUDENTIAL PLAZA • P.O. BOX 749 • DENVER, COLORADO 80201 • (303) 572-1121

December 17, 1976

Mr. C. B. Feight
State of Utah
Department of Natural Resources
Division of Oil & Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116



Dear Mr. Feight:

Re: CIGE 1-29-19-22
Section 29, T10S, R22E
Uintah County, Utah

Please be advised that the location for the first CIGE well to be drilled in the Natural Buttes area has been changed, making the above obsolete. Please cancel all your records concerning the above well name and location.

Enclosed is our Application to Drill CIGE 1-22-10-22 (Section 22, T10S, R22E - Uintah County, Utah) together with plat and other pertinent papers. This location will now be the first CIGE well to be drilled in the Natural Buttes area - with an approximate spud date of January 10, 1977.

Thank you for your attention in this matter.

Very truly yours,

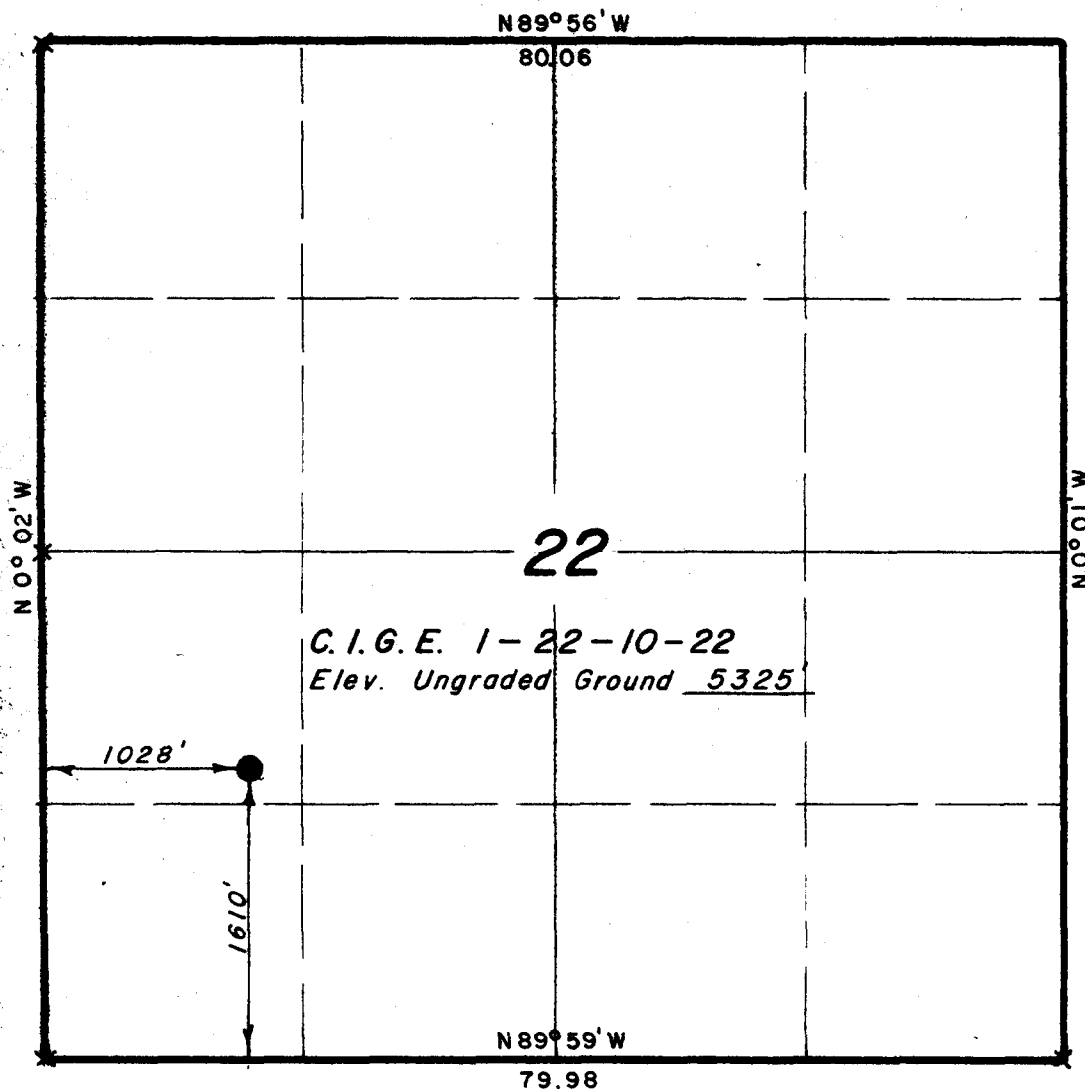
Robert G. Merrill

Robert G. Merrill
Area Engineer

RGM:mjr

Attachments

T10S, R22E, S. L. B. & M.



X = Section Corners Found & Used.

PROJECT
C.I.G. EXPLORATION, INC.

Well location, C.I.G.E. 1-22-10-22,
located as shown in the NW1/4 SW1/4
Section 22, T10S, R22E, S.L.B. & M.,
Uintah County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence C. Ray
REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 2 December 1976
PARTY R.K., D.B. & D.D.	REFERENCES GLO Plat
WEATHER Cold	FILE CIG Exploration, Inc.

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

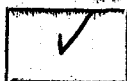
Date: December 20, 1976

Operator: CIG Exploration, Inc.

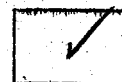
Well No. Natural Buttes CIGE 1-22-10-22

Location: Sec. 22 T. 10S R. 22E, County: Uintah

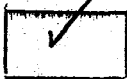
File Prepared



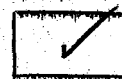
Entered on N.I.D.



Card Indexed



Completion Sheet



Checked By:

Administrative Assistant: [Signature]

Remarks:

Petroleum Engineer: CK PA

Remarks:

Director: [Signature]

12-20-76
(in unit)

Remarks:

Include Within Approval Letter:

Bond Required ☐

Survey Plat Required ☐

Order No. ☐

Surface Casing Change ☐
to ☐

Rule C-3(c), Topographical exception/company owns or controls acreage
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐

O.K. In Natural Buttes Unit ☐

Other:

☐ Letter Written

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-01198-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

NATURAL BUTTES UNIT

8. FARM OR LEASE NAME

NATURAL BUTTES UNIT

9. WELL NO.

CIG-1-22-10-22

10. FIELD AND POOL, OR WILDCAT

BITTER CREEK FIELD

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

SEC. 22, T10S, R22E

12. COUNTY OR PARISH

UINTAH

13. STATE

UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

CIG EXPLORATION, INC.

3. ADDRESS OF OPERATOR

P. O. BOX 749 - DENVER, COLORADO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1028' FWL & 1610' FSL - SECTION 22, T10S, R22E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,325'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) SEE BELOW

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) SEE BELOW

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

X

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On 8-5/8" casing (24#, setting depth 2,500') - change cement from 1000 sacks to 225 sacks -

225 sacks will give 500' of fill in an 11" hole +100% excess. This meets State and U.S.G.S. regulations.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

Verbal approval given by Ed Guynn.

DATE: March 28, 1977

BY: Ph Russell

18. I hereby certify that the foregoing is true and correct

SIGNED

Robert L. Merrill
R. L. Merrill

TITLE

Area Engineer

DATE March 17, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ATTACHMENT 2-A

C & G Expl. Inc
1-22-10-22
Sec 22-10s -22E
U-0119813
Uintah Co. Utah.
BLM - Robbins
USGS - Alexander
C&G - ODIN

- | | |
|-------------------------------------|--------------|
| <input type="radio"/> | ENHANCES |
| <input type="checkbox"/> | NO IMPACT |
| <input checked="" type="checkbox"/> | MINOR IMPACT |
| <input type="checkbox"/> | MAJOR IMPACT |

CIG Expl. Inc.		Construction	Pollution	Drilling Production	Transport Operations	Accidents	Others
# 1-22-10-22		Roads, bridges, airports	Burning, noise, junk disposal	Well drilling	Trucks	Spills and leaks	
Sec 22-10s-22E		Transmission lines, pipelines	Liquid effluent discharge	Fluid removal (Prod. wells, facilities)	Pipelines	Operational failure	
U-0119813		Dams & impoundments	Subsurface disposal	Secondary Recovery	Others		
Uintah Co. Utah		Others (pump stations, compressor stations, etc.)	Others (toxic gases, noxious gas, etc.)	Noise or obstruction of scenic views			
BLM - Robbins				Mineral processing (ext. facilities)			
USGS - Alexander							
CIG - ODEN							
<input type="checkbox"/>	ENHANCES						
<input type="checkbox"/>	NO IMPACT						
<input checked="" type="checkbox"/>	MINOR IMPACT						
<input checked="" type="checkbox"/>	MAJOR IMPACT						
Land Use	Forestry	NA					
	Grazing	✓ 0	/	/	/	/	/
	Wilderness	NA					
	Agriculture	NA					
	Residential-Commercial	NA					
	Mineral Extraction	NA					
	Recreation	✓ 0	/	/	/	/	/
	Scenic Views	✓ /	/	/	/	/	/
	Parks, Reserves, Monuments	NA					
	Historical Sites	NA					
	Unique Physical Features	NA					
Flora & Fauna	Birds	✓	/	/	/	/	/
	Land Animals	✓	/	/	/	/	/
	Fish	NA					
	Endangered Species	None Known					
	Trees, Grass, Etc.	✓	/	/	/	/	/
	Surface Water	NA					
	Underground Water	?					
Phy. Character.	Air Quality	✓	/	/	/	/	/
	Erosion	✓	/	/	/	/	/
	Other						
	Effect On Local Economy	✓ 0	0	0	0	0	0
	Safety & Health	✓	/	/	/	/	/
	Others						

Aug - Free
 cc: Bldg - Denver
 BLM - Denver w/o matrix
 DO & M - [unclear]

Lease

U-21198-B

Well No. & Location

1-22-10-22

Uintah Utah.

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

GIG Expl. Inc.

PROPOSES TO DRILL AN OIL AND

GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 9,300 FT. TD. 2) TO CONSTRUCT A

DRILL PAD 450 FT. X 225 FT. AND A RESERVE PIT 75 FT. X 150 FT.

3) TO CONSTRUCT 18' FT. X .25 MILES ACCESS ROAD AND UPGRADE 1.8 FT.

X 1.65 MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD. Production

Facilities will be contained on ORIGINAL Drilg Loc. (separator, Dehy, meter Run, Condensate tank, and 26'x20' water pit.) (see plat)

2. Location and Natural Setting (existing environmental situation)

Loc also to include 150' x 225 Area for massive frac equipment.

SEE ITEM # 11 of multiple use plan.

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6)

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) No nearby location could be found that would justify this action.

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6)

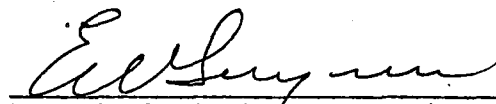
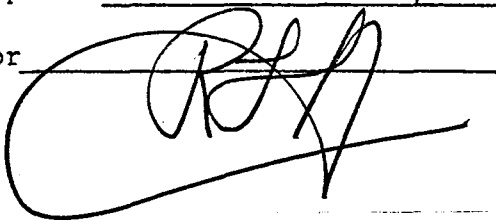
6. Determination

(This requested action ~~(does)~~ (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected

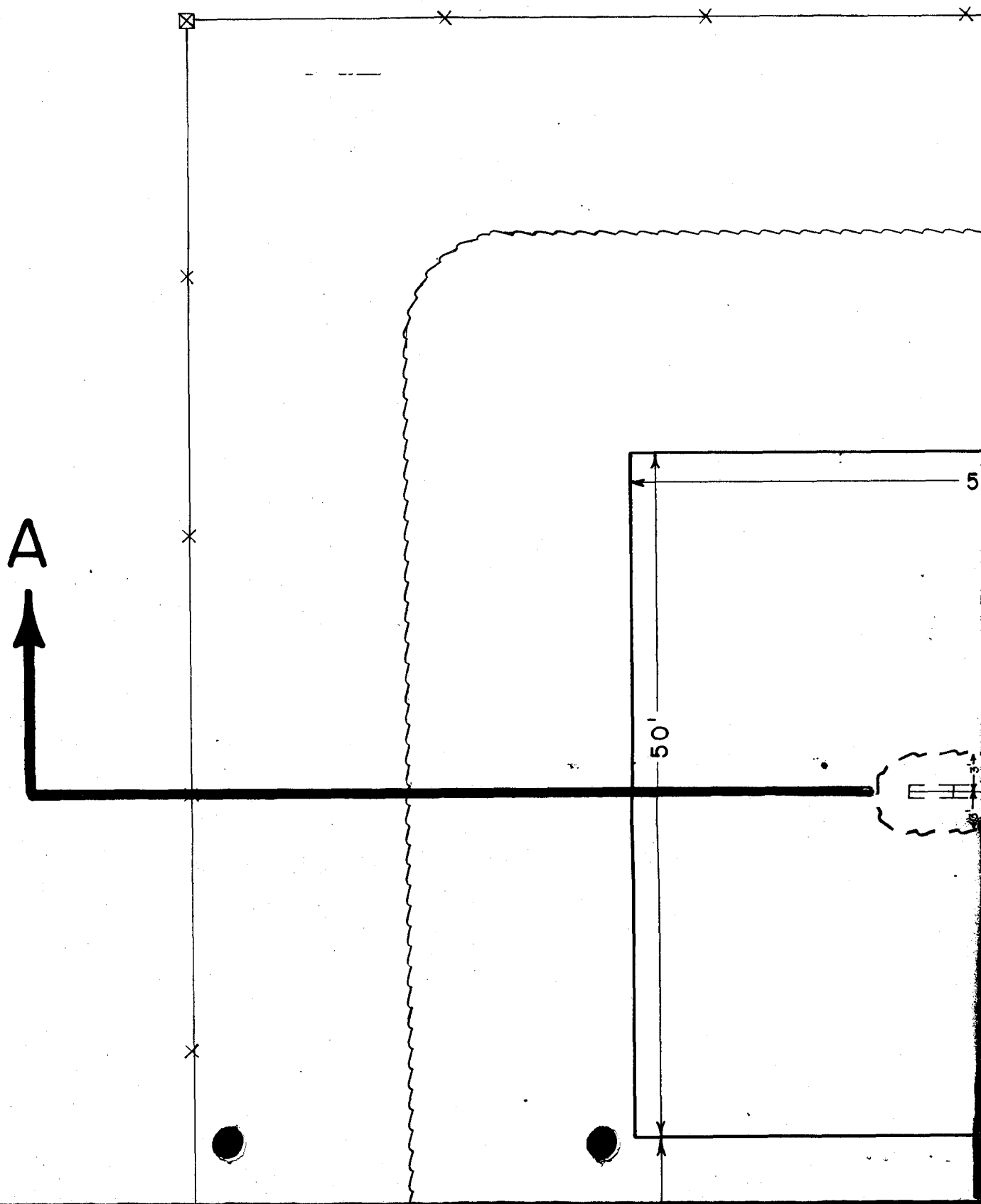
1-10-77

Inspector

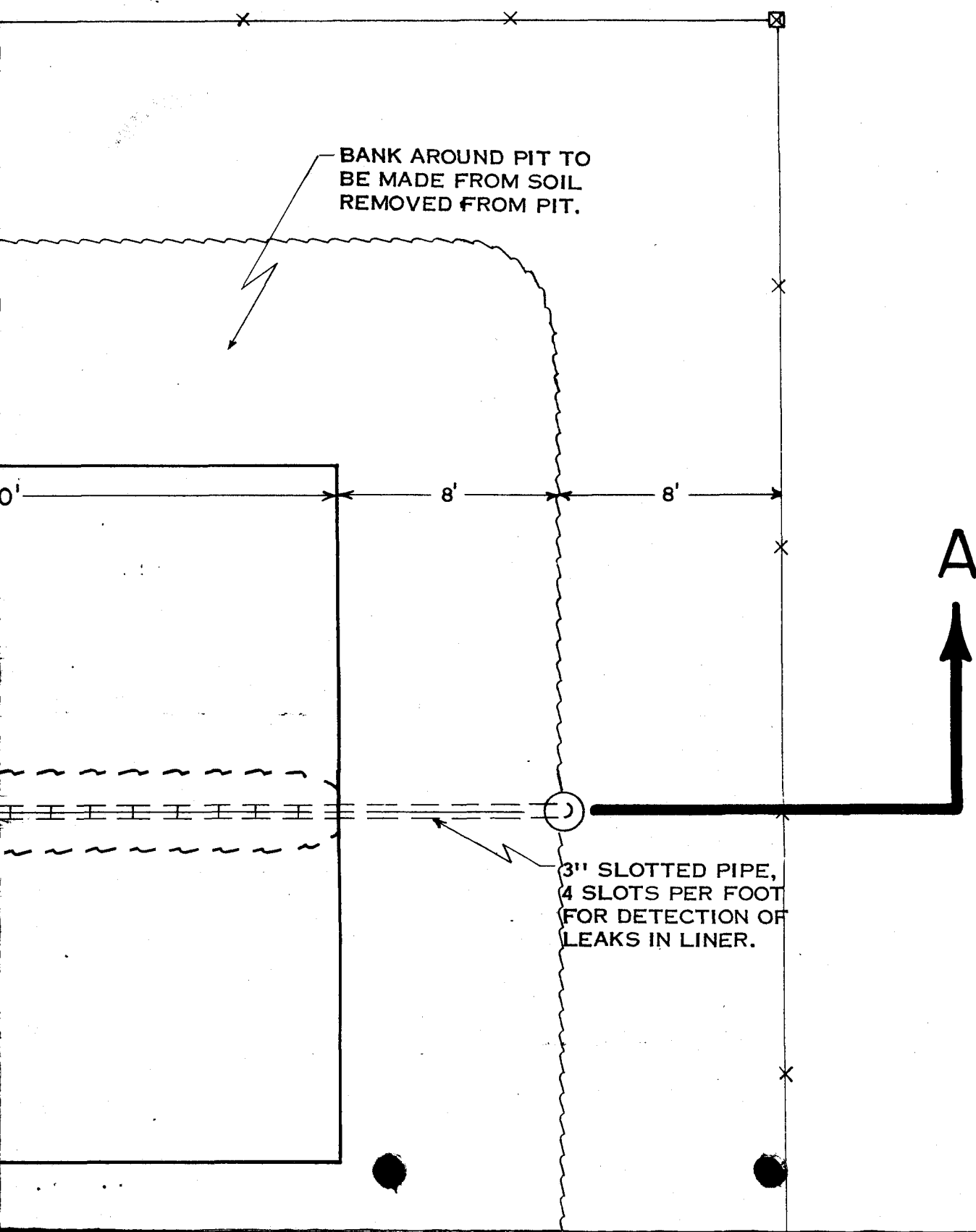


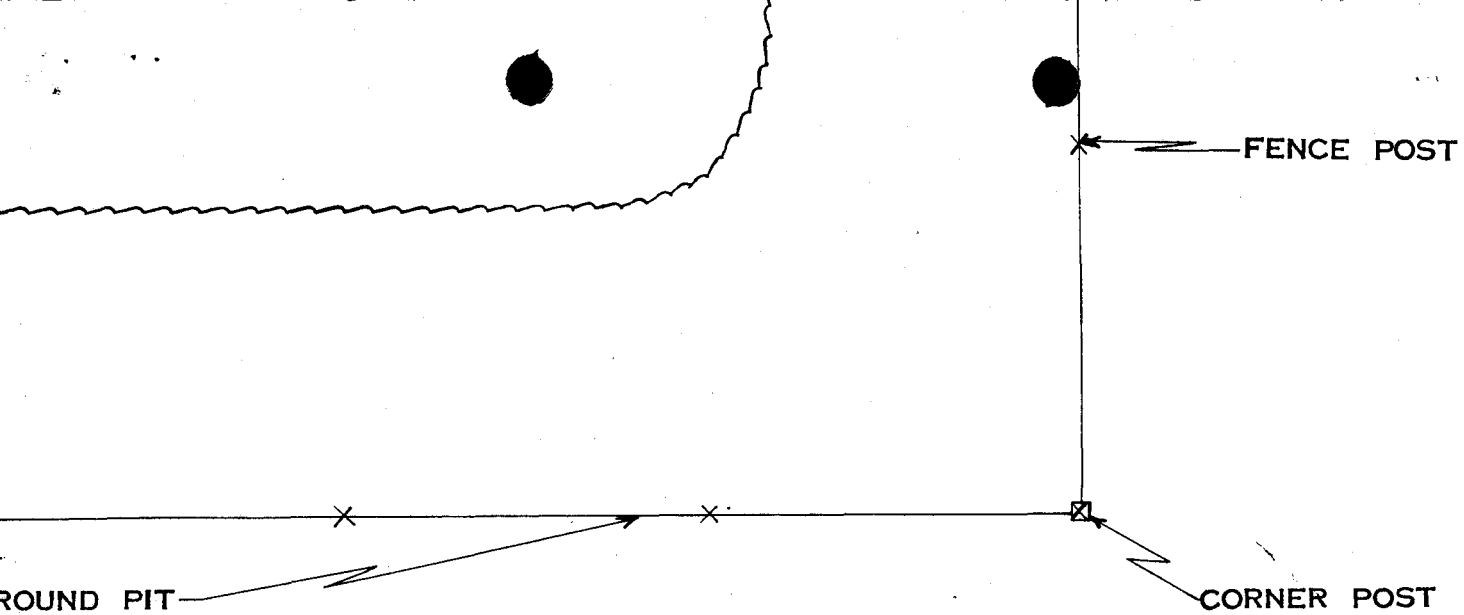
U.S. Geological Survey,
Conservation Division
Salt Lake City District
Salt Lake City, Utah

TOP VIEW OF

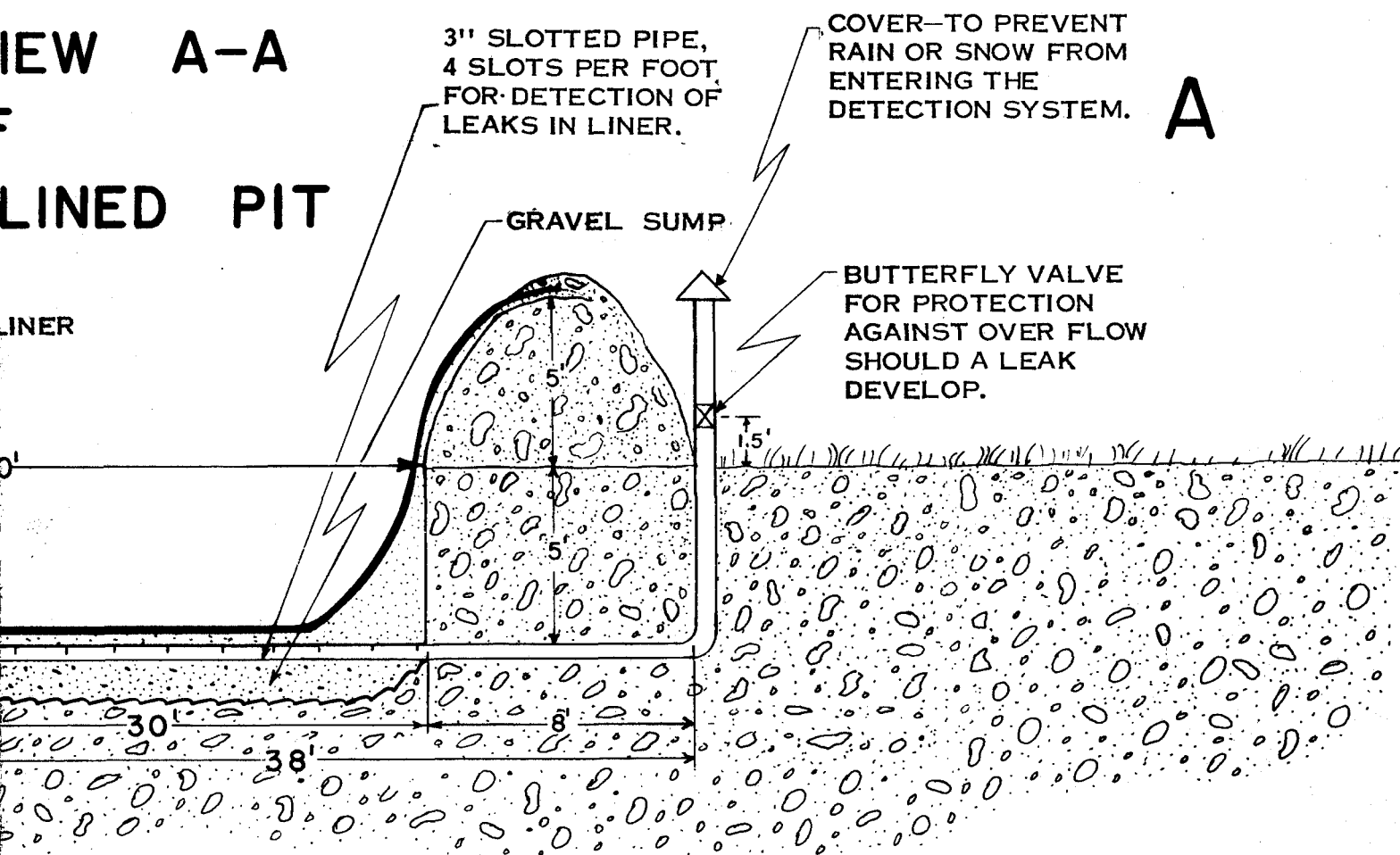


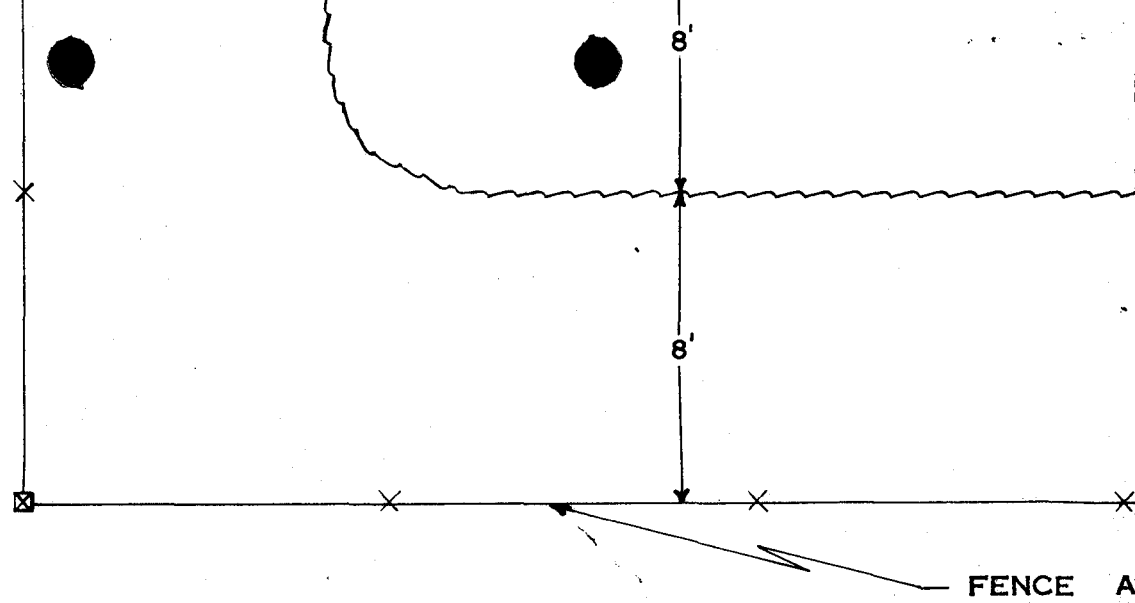
LINED PIT





VIEW A-A LINED PIT





A

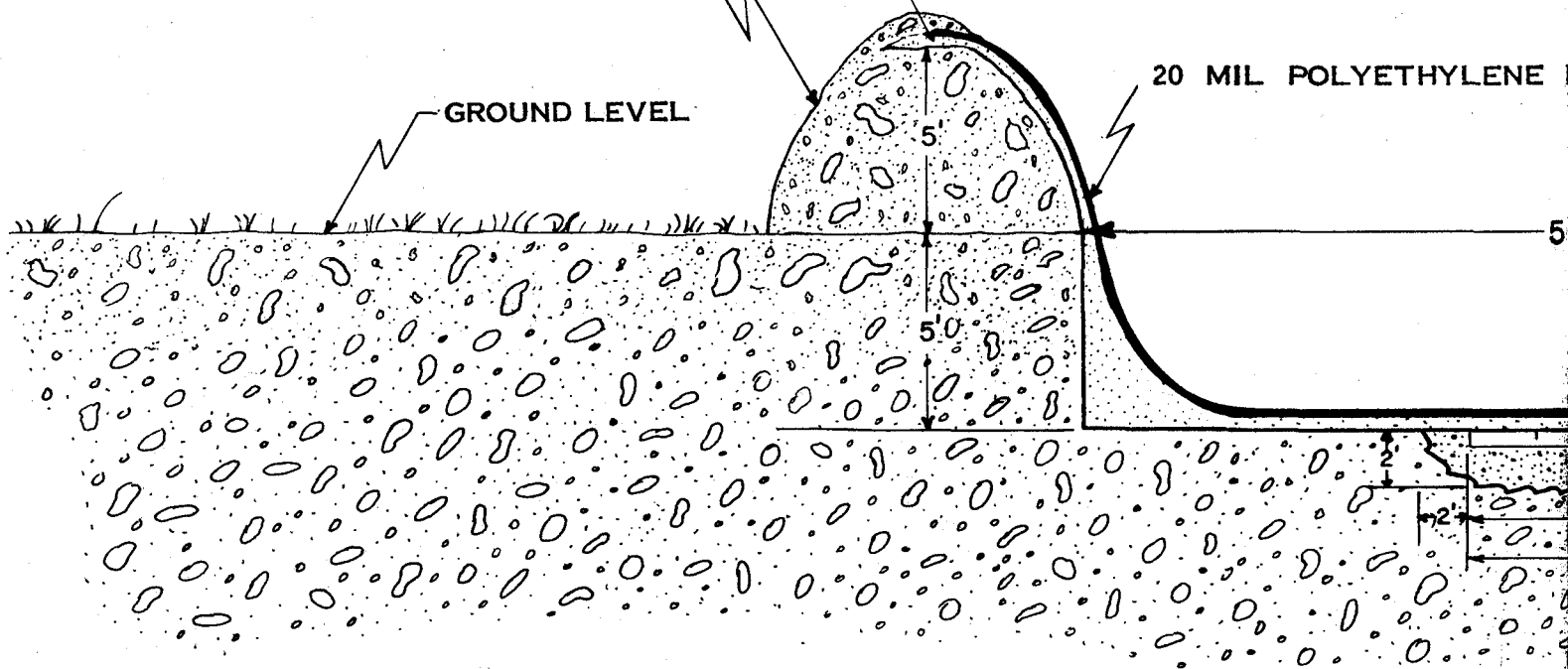
FINE TO VERY FINE
"BLOW" SAND TO
PROVIDE A SMOOTH
CUSHION FOR
POLYETHYLENE LINER.

BANK MADE FROM SOIL
REMOVED TO MAKE PIT

GROUND LEVEL

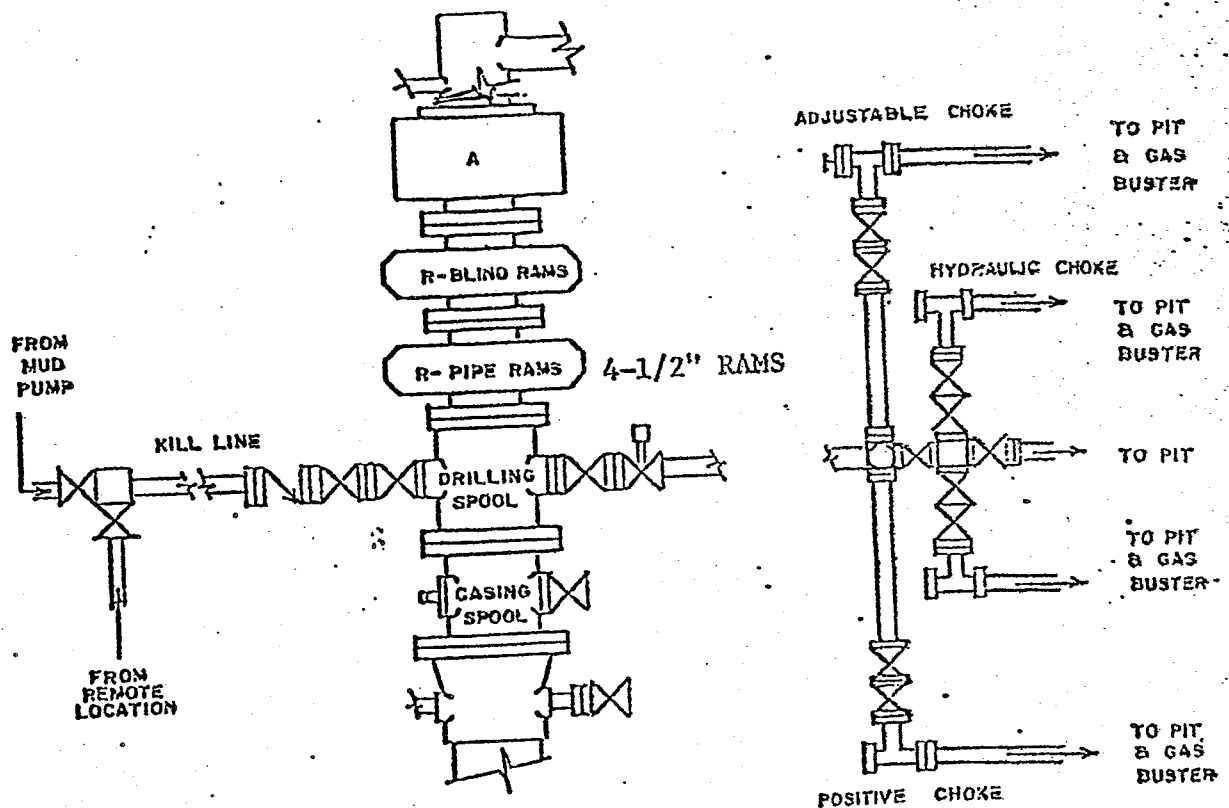
SECTION V
OF
PROPOSED

20 MIL POLYETHYLENE



3000 psi

psi Working Pressure BOP's



Test Procedure

- 1) Flush BOP's and all lines to be tested with water.
- 2) Run test plug on test joint and seat in casing head (leave valve below test plug open to check for leak).
- 3) Test the following to rated pressure:
 - a) inside blowout preventer
 - b) lower kelly cock
 - c) upper kelly cock
 - d) stand pipe valve
 - e) lines to mud pump
 - f) kill line to BOP's
- 4) Close and test pipe rams to rated pressure.
- 5) Close and test Hydril to rated pressure.
- 6) Back off and leave test plug in place. Close and test blind rams to rated pressure.
- 7) Test all choke manifold valves to rated pressure.
- 8) Test kill line valves to rated pressure.

CIGE 1-22-10-22

NW/4 SW/4 SECTION 29, T10S, R22E
UINTAH COUNTY, UTAH

10-POINT PROGRAM

1. Geologic name of surface formation:
Uinta Formation

2. Estimated tops of important geologic markers:

Wasatch	4040
Mesaverde	6150
Castlegate	8600
Mancos	8900

3. Estimated depths at which anticipated water, oil, and gas are expected to be encountered:

Wasatch	4050 - Gas
Mesaverde	6150 - Gas
Castlegate	8600 - Gas

4. Proposed casing program, including size, grade, and weight per foot of each string and whether new or used:

13-3/8" at 75'	48#, H-40, STC	New
8-5/8" at 2,500'	24#, K-55, STC	New
4-1/2" at 9,300'	13.5#, N-80, LTC	New

5. Operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings, and testing procedures and testing frequency.

Bottom:

3000# BOP W/4-1/2" pipe rams
3000# BOP W/blind rams
3000# Hydril

Top: Grant rotating head

Manifold includes appropriate valves, positive and adjustable chokes and kill line, to control abnormal pressures.

BOP's will be tested at installation and will be cycled on each trip.

6. The type and characteristics of the proposed circulating medium to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained:

The well will be drilled with fresh water from surface to 4,500' with a weight of 8.4 to 9.0 ppg. From 4,500 to 9,300', the well will be drilled with salt water mud with a weight from 8.5 to 10.0 ppg. Sufficient weighting material (barite) will be on location to increase the mud weight if abnormal pressure is encountered.

7. Auxiliary equipment to be used:
 - a. kelly cock
 - b. monitoring equipment on the mud system
 - c. a sub on the floor with a full opening valve to be stabbed into the drill pipe when the kelly is not in the string

8. Testing, logging and coring program to be followed:
No DST's are planned
No coring is planned
Logs: DLL
 GR-Sonic
 GR-FDC/CNL

9. Any anticipated abnormal pressures or temperatures expected to be encountered:
No abnormal pressures or temperatures expected
No hydrogen sulfide expected

10. The anticipated starting date and duration of the operation:
Starting Dated: January 10, 1976
Duration: Six Weeks

CIG EXPLORATION, INC.

12 POINT SURFACE USE PLAN

FOR

WELL LOCATION

C.I.G.E. 1-22-10-22

LOCATED IN

SECTION 22, T10S, R22E, SLB & M

Uintah County, Utah

1. EXISTING ROADS

See attached Topographic Map "A" - to reach the C.I.G. Exploration, Inc. well location (G.I.G.E. 1-22-10-22) located in Section 22, T10S, R22E, SLB&M from Vernal, Utah.

Proceed west from Vernal along U.S. Highway 40 to the junction of U. S. Highway 40 and Utah State Highway 209 (Ouray Turn-off). Proceed south along Route 209 to its junction with State Highway 88. Proceed south along 88 to Ouray, Utah, thence proceed south from Ouray 9+ miles to a junction of this road and one proceeding south; thence proceed in a southeasterly direction along the Seep Ridge road 2.3 miles to an intersection with a service road that runs east. Proceed in an easterly direction along this road 10.4 miles to an old dirt landing strip (there are numerous roads that branch off this last described section to the north and south). Then proceed in a southeasterly direction along the landing strip 0.5 mile to the intersect of the planned access road to the well location C.I.G.E. 1-22-10-22, and this is discussed further in #2.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

After leaving the road described in Item 1. there will have to be some minor work done to touch up the existing trail for 1.65 miles that will require a cat and patrol; then from the end of this trail there will have to be 0.25 miles of completely new road built to reach the proposed location site.

This proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run off from any normal meteorological conditions that are prevalent to this area.

The grade of this road will vary from flat to 8%, but will not exceed this amount. The road will be constructed from native borrow accumulated during construction.

The terrain that is traversed by this road is relatively flat and traverses a ridge and is vegetated with sparse amounts of sagebrush, rabbit brush, and grasses.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no other wells within a one mile radius of the proposed well site. (See location plat for placement of C.I.G. Exploration Corporation well location within the section.)

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

All petroleum production facilities are to be contained within the proposed location site. There are no other C.I.G. Exploration, Incorporated flow, gathering, injection, or disposal lines within a one mile radius of this location.

In the event production is established, plans for a gas flow line from this location to existing gathering line or a main production line shall be submitted to the appropriate agencies for approval.

5. LOCATION AND TYPE OF WATER SUPPLY

Water used to drill this well is to be pumped from a flowing well, 4 miles to the west from the location site.

In the event water is not available from this well, it would require that the water be hauled from the White River for a distance of 8 miles if hauled up Bitter Creek or 24 miles if hauled along main road from Ouray, Utah.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time.

7. METHODS FOR HANDLING WASTE DISPOSAL

All garbage and trash that can be burned, shall be burned. All unburnable garbage and trash accumulated during development of this well shall be contained in the trash pit shown on the attached location layout sheet.

When drilling activities have been completed, the rig moved off the location and production facilities set up, all garbage and trash on the location site shall be cleaned up, deposited in the trash pit, and covered with a minimum 4' of cover.

All production waste such as cuttings, salts, chemicals, overflows of condensate, water, and drilling fluids shall be contained in the west cell of the reserve pit and upon completion of drilling activities, buried with a minimum of 4' of cover.

A portable chemical toilet will be supplied for human waste. (See end paragraph in Item No. 10.)

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached location layout plat. The Bureau of Land Management District Manager or other appropriate agencies shall be notified before any construction begins on the proposed location site. When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil in the area, all topsoil will be stripped and stockpiled prior to drilling activities on the well site only (see Item No. 9). When all production activities have been completed, the location site, access road, and flowline route will be reshaped as near as possible to the original contour, prior to construction, and the topsoil on the location only spread over the disturbed area. Any drainages re-routed during the construction and production activities shall be restored to their original line of flow.

10. PLANS FOR RESTORATION OF SURFACE (CONTINUED)

All additional wastes being accumulated during production activities and contained in the reserve pit and trash pit shall be buried with a minimum four feet of cover. The location site, access road, and flowline route shall be reseeded with a seed mixture recommended by the Bureau of Land Management District Manager, when the moisture content of the soil is adequate for germination.

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

The lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in the best and most workmanlike manner and in strict conformity with the above mentioned Item No. 7 and No. 10.

11. OTHER INFORMATION

The topography of the general area. The location, C.I.G.E. 1-22-10-22, is located on a bench area that extends in a north south direction and lies between two major drainages known as Sand Wash on the west and Bitter Creek on the east and ends at the White River to the north, is the only flowing stream in the area that has a year round flow.

The majority of the numerous washes and streams in the area are of a non-perennial nature, flowing during the early spring run-off, and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

The topography of the area slopes from the rim of the Book Cliff Mountains to the south to the White River to the north. The area is interlaced with numerous canyons and ridges which are extremely steep, with numerous ledges formed in sandstones, conglomerates and shale deposits.

The soils of this semi-arid area are of the Uinta Formation and Duchesne River Formation (the Fluvial Sandstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (gravel surfaces). It consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The top soils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) type soil, with outcrops of solid rock (sandstone).

Due to the low precipitation average, climate conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations, it consists of, as primary flora, areas of sagebrush, rabbitbrush, some grasses, and cacti, and large areas of bare soils devoid of any growth.

11. OTHER INFORMATION (Continued)

The fauna of the area consists predominantly of the coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing sheep.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The immediate area surrounding the location site is vegetated with sparse amounts of sagebrush and grasses.

The terrain in the immediate vicinity of the location slopes to the south-east and slopes through the location site at approximately a 1% grade, then falls steeply into the canyon formed by Bitter Creek.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B".)

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Robert G. Merrill
P.O. Box 749
Denver, Colorado 80201


Bus. Phone (303) 572-1121

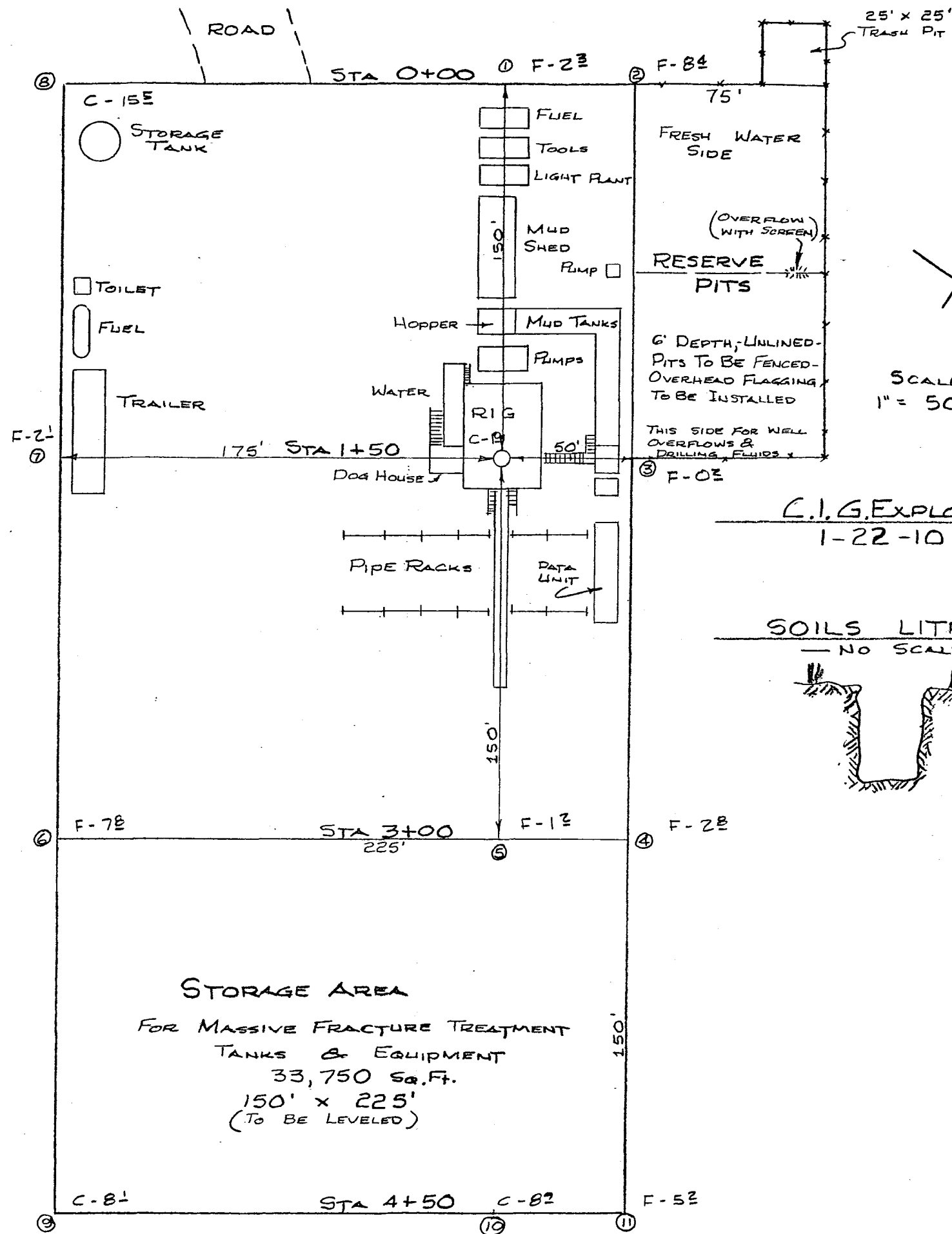
CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by C.I.G. Exploration, Inc., and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

DEC 17 1976

DATE

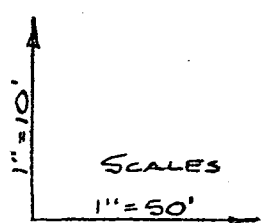
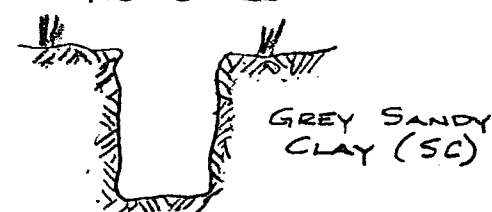

Robert G. Merrill
Area Engineer



SCALE
1" = 50'

C.I.G. EXPLORATION
1-22-10-22

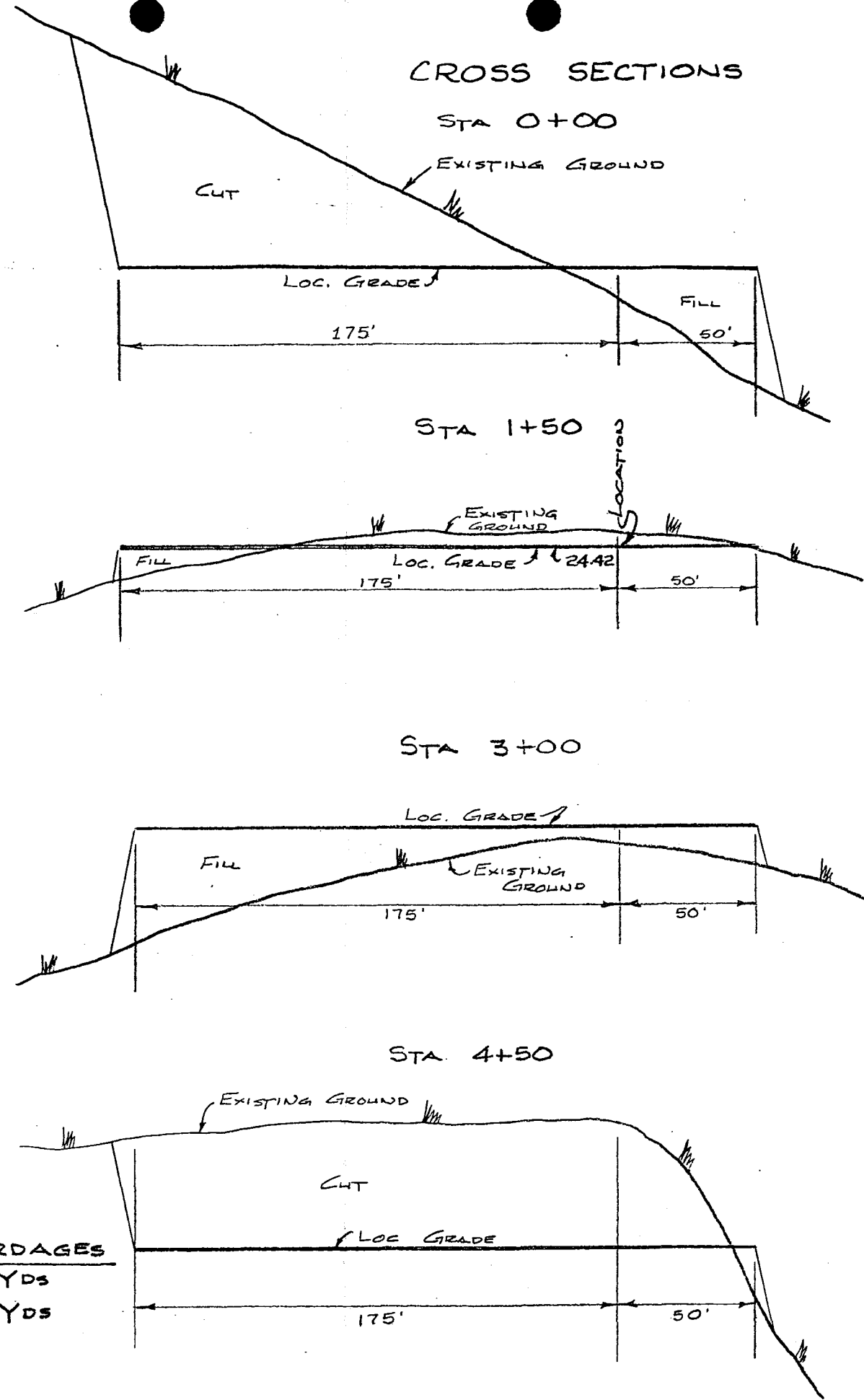
SOILS LITHOLOGY
— NO SCALE —

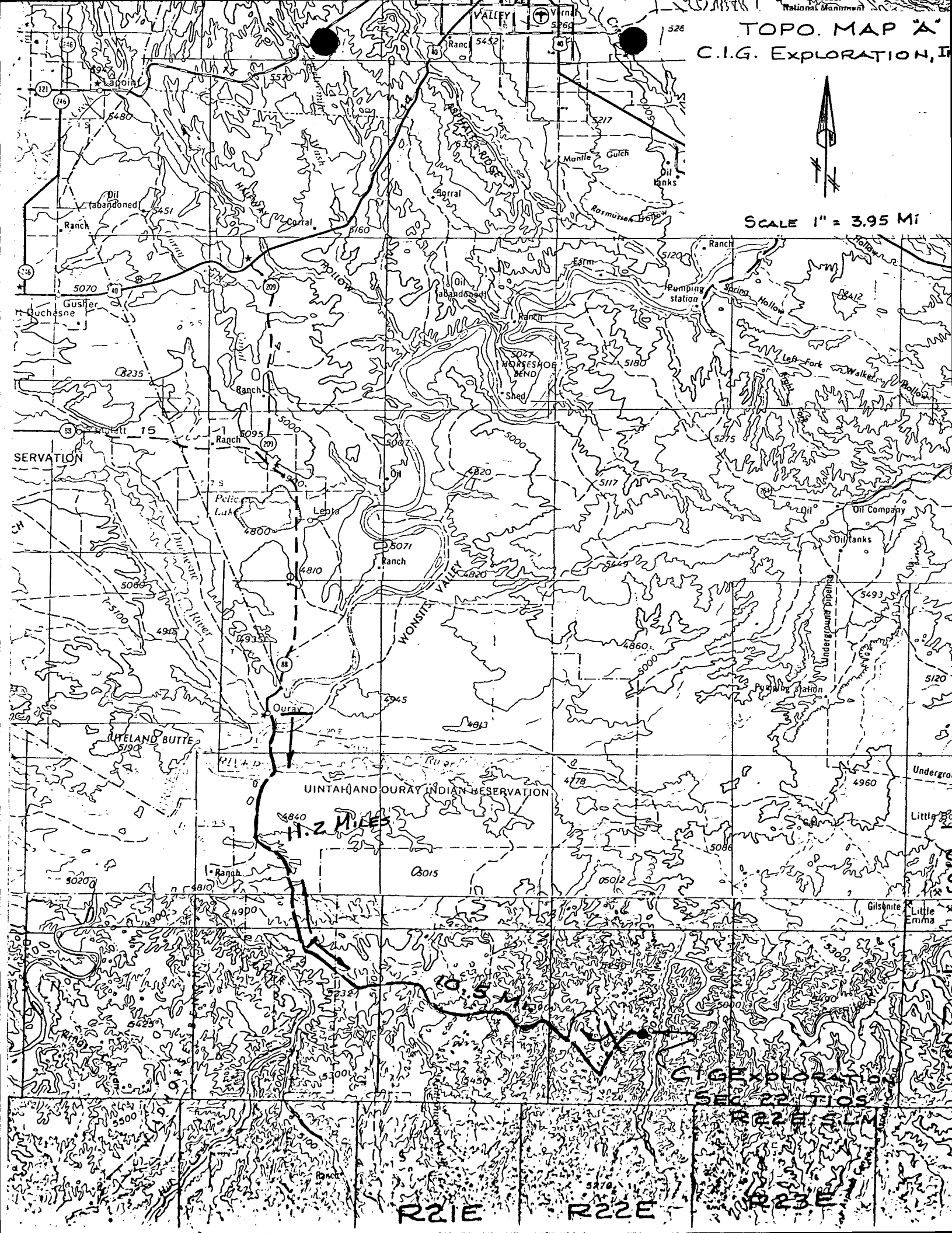


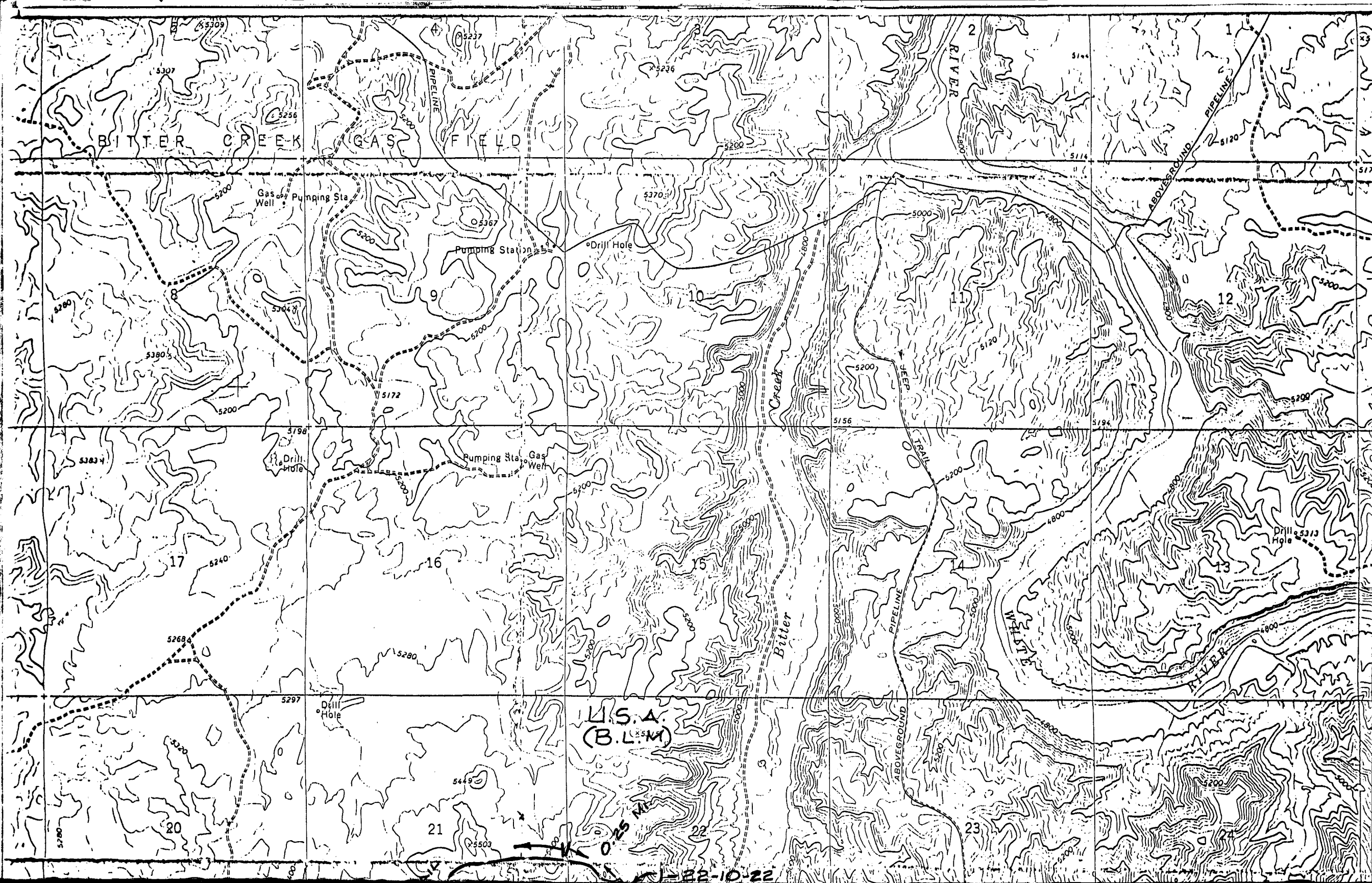
APPROX YARDAGES

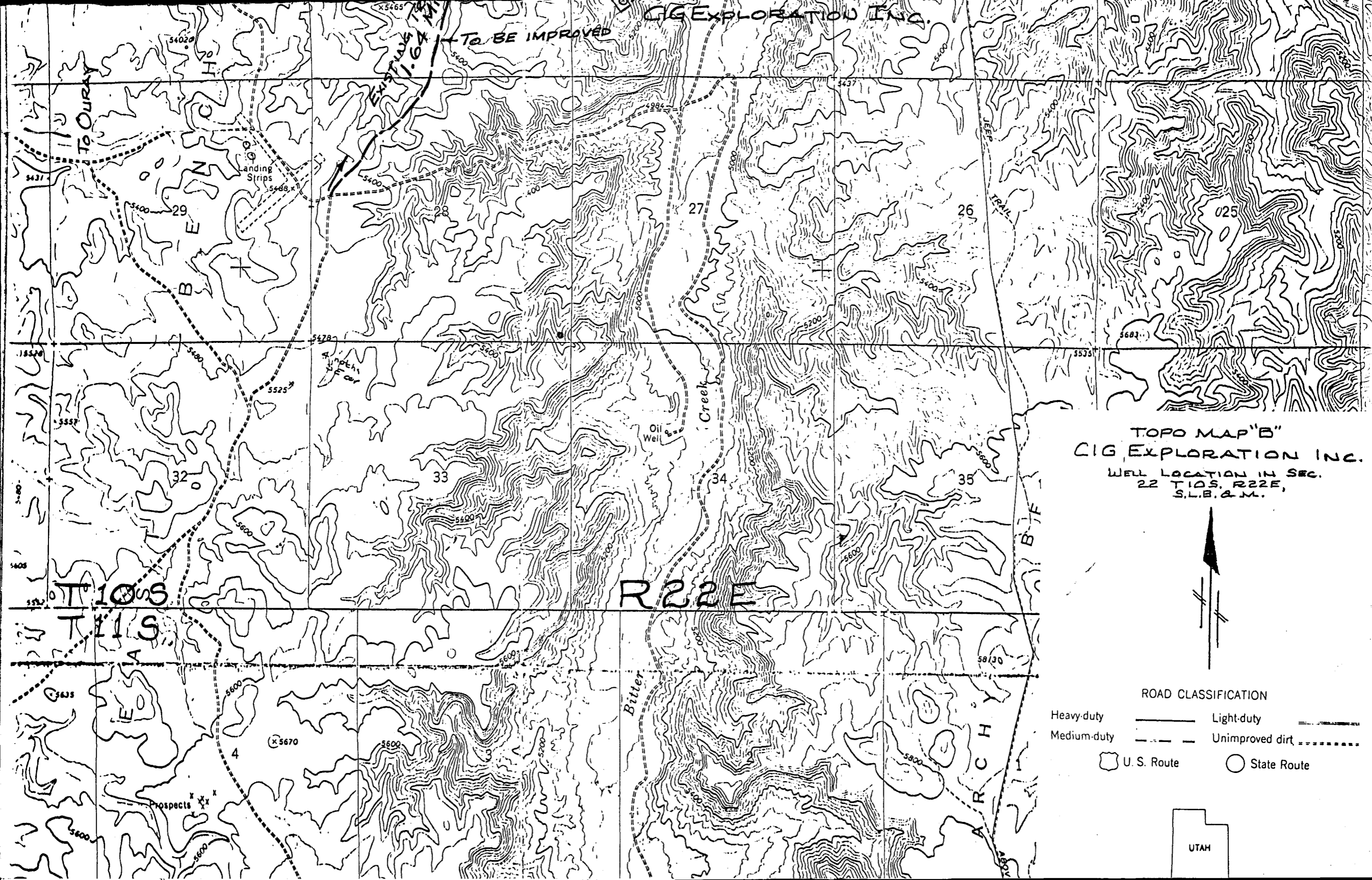
CUT	8774 Yds
FILL	6944 Yds

CROSS SECTIONS









CIG EXPLORATION INC.

TO BE IMPROVED

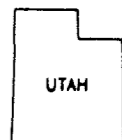
EXISTING TRAIL 1.64 MI

TOPO MAP "B"
CIG EXPLORATION INC.
WELL LOCATION IN SEC.
22 T10S. R22E,
S.L.B. & M.



ROAD CLASSIFICATION

Heavy-duty	—————	Light-duty	—————
Medium-duty	- - - - -	Unimproved dirt
U. S. Route	□	State Route	○



PROPOSED PLAN FOR REMOVAL OF PRECIPITANTS

After solids have been precipitated from the produced waters or blown into the pit from the surrounding area, a vacuum truck will be used to remove solids. Vacuum trucks are used through the industry in removing drilling fluids from reserve pits, steel tanks, etc., and thus are proven as capable of performing the subject task. Produced waters will also be used for workovers in the Unit, as they are compatible with the formations.

*moving
Dum*

HALLIBURTON

SERVICES

DISTRICT LABORATORY
Box 339, VERNAL, UTAH 84078

LABORATORY REPORT

C. I. G. 1-22-10-22
FILE
No. _____

To Karl Olson

Date June 2, 1977

Colorado Interstate Gas

Vernal, Utah 84078

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

We give below results of our examination of Water

Submitted by Ron Anderson, Halliburton Services

Marked C. I. G. 1-22-10-22

Specific Gravity----- 1.010

pH----- Approx. 6.5

Chlorides----- 868 mpl

Calcium----- 270 mpl

Magnesium----- 110 mpl

Carbonates----- Nil

Bicarbonates----- 1.250 mpl

cc: G. G. Stennis
Division Lab
B. L. McClure

Respectfully submitted,

HALLIBURTON SERVICES

By

Jim J. Eckroth/dm

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-01198-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

NATURAL BUTTES UNIT

8. FARM OR LEASE NAME

NATURAL BUTTES UNIT

9. WELL NO.

CIGE 1-22-10-22

10. FIELD AND POOL, OR WILDCAT

BITTER CREEK FIELD

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

SEC. 22, T10S, R22E

12. COUNTY OR PARISH

UINTAH

13. STATE

UTAH

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

CIG EXPLORATION, INC.

3. ADDRESS OF OPERATOR

P. O. BOX 749 - DENVER, COLORADO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1028' FWL & 1610' FSL - SECTION 22, T10S, R22E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,325'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON* ☐REPAIR WELL ☐CHANGE PLANS ☐(Other) WATER DISPOSAL-LINED PIT ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT* ☐

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Application is hereby made for disposal of subject well's produced water to be made utilizing a lined pit. The well is presently producing an average of ± 350 BHPD from the Mesaverde Formation. The evaporation rate for the area, compensated for annual rainfall, is 70 inches per year. The pit dimensions will be 50' X 50' at the surface, tapering down to 40' X 40', having a depth of 10'. The liner is to be made of 20 mil polyethylene, and will be installed as pictured.

Because of the amount of water produced and the size of the pit, it will be necessary to haul excess water from this location to the Natural Buttes Unit No. 14 location (Section 22, T9S, R21E), where a lined pit is already installed (Sundry Notice approved 4/27/77). This pit measures 200' X 200' X 10' and was installed in the same manner as proposed for this well, with the liner made of 30 mil polyethylene.

ATTACHMENTS: (1) TOPO MAP (2) WATER ANALYSIS (3) PIT DESIGN

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: July 15, 1977

BY: J. H. Sussall

18. I hereby certify that the foregoing is true and correct

SIGNED

Frank R. Miskiff

TITLE

District Superintendent

DATE July 1, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-01198-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

NATURAL BUTTES UNIT

8. FARM OR LEASE NAME

NATURAL BUTTES UNIT

9. WELL NO.

CIGE 1-22-10-22

10. FIELD AND POOL, OR WILDCAT

BITTER CREEK FIELD

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

SEC. 22, T10S, R22E

12. COUNTY OR PARISH

UINTAH

13. STATE

UTAH

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

CIG EXPLORATION, INC.

3. ADDRESS OF OPERATOR

P. O. BOX 749 - DENVER, COLORADO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1028' FWL & 1610' FSL - SECTION 22, T10S, R22E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,325'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other) ISOLATE WATER

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PULL TUBING

RUN TWO PAKCERS

ISOLATE PERFORATIONS AT 8,576' - 80'

NO ADDITIONAL SURFACE DISTURBANCE WILL BE REQUIRED FOR THIS WORK

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: August 16, 1977

BY: P. G. Merrill

18. I hereby certify that the foregoing is true and correct

SIGNED

Robert G. Merrill
ROBERT G. MERRILL

TITLE AREA ENGINEER

DATE AUGUST 5, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See instructions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other _____						
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other _____				
2. NAME OF OPERATOR CIG EXPLORATION, INC.											
3. ADDRESS OF OPERATOR P. O. BOX 749, DENVER, CO. 80201											
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1028' FWL, 1610' FSL, Sec. 22-T10S-R22E At top prod. interval reported below Same At total depth Same											
14. PERMIT NO. 43-047-30242				DATE ISSUED 10-28-76							
15. DATE SPUDDED 1-29-77		16. DATE T.D. REACHED 3-8-77		17. DATE COMPL. (Ready to prod.) 4-10-77		18. ELEVATIONS (OF, RKB, RT, GR, ETC.)* 5325 ungraded gr.		19. ELEV. CASINGHEAD Unknown			
20. TOTAL DEPTH, MD & TVD 9317'		21. PLUG, BACK T.D., MD & TVD 8450 - BP		22. IF MULTIPLE COMPL., HOW MANY* N/A		23. INTERVALS DRILLED BY →		ROTARY TOOLS 0 - 9317'		CABLE TOOLS ---	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Mesa Verde: 6350' - 8670'								25. WAS DIRECTIONAL SURVEY MADE Yes			
26. TYPE ELECTRIC AND OTHER LOGS RUN See Attachment								27. WAS WELL CORED No			
28. CASING RECORD (Report all strings set in well)											
CASINO SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
13-3/8"				92		17-1/4"		125 sx.		---	
8-5/8"		24		2500		11"		250 sx Class "G"		---	
4-1/2"		13.6		9317		7-7/8"		2050 sx 50/50 poz + 2% gel + 5% KCl + 5#/sx Gilonite		---	
29. LINER RECORD											
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)			
---		---		---		---		---			
30. TUBING RECORD											
SIZE		DEPTH SET (MD)		PACKER SET (MD)							
2-3/8"		8253'		None							
31. PERFORATION RECORD (Interval, size and number) See Attachment						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
						DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
						6629' - 8882'		Frac w/1,710,000# SD and 16,620 bbl of fluid			
						8588' - 8815'		Acidize w/5000 gal MSR acid			
						6629' - 8485'		Acidize w/1000 gal 7 1/2% HCl			
33. PRODUCTION											
DATE FIRST PRODUCTION 9-1-77		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing						WELL STATUS (Producing or shut-in) Producing			
DATE OF TEST 9-7-77		HOURS TESTED 24		CHOKE SIZE 12/64"		PROD'N. FOR TEST PERIOD →		OIL—BBL. ---		GAS—MCF. 329	
FLOW. TUBING PRESS. 0 to pit		CASING PRESSURE (flowing) 650 to sales		CALCULATED 24-HOUR RATE →		OIL—BBL. ---		GAS—MCF. 329		WATER—BBL. 44	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold								TEST WITNESSED BY			
35. LIST OF ATTACHMENTS Supplement: Item 26, Item 31											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records											
SIGNED <u>Sam Hall</u>				TITLE <u>Engineer Assistant</u>				DATE <u>1-4-78</u>			

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
No DST's or coring			

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Wasatch	4078'	Same
Mesa Verde	6350'	Same
Castlegate	8670'	Same
Mancos	9015'	Same

CIGE #1-22-10-22

CIG EXPLORATION, INC.
Uintah County, Utah

COMPLETION REPORT - SUPPLEMENT

Item 26 - Type Electric and Other Logs Run

Schlumberger: Compensated Neutron-Formation Density, Dual Spacing Thermal
 Neutron Decay Time, Dual Laterlog, Borehole Compensated
 Sonic Log, Mechanical Properties Log

GO International:

 Gamma Ray, Differential Temperature, Borehole Audio
 Tracer Survey.

OWP: Cement Bond Log

Item 31 - Perforation Record (Saraband Depths)

<u>3/26/77:</u>	8878' - 8882'	7976' - 7980'
	8811' - 8815'	7948' - 7952'
	8780' - 8784'	7915' - 7919'
	8734' - 8738'	7859' - 7863'
	8688' - 8692'	7752' - 7756'
	8566' - 8570'	7706' - 7710'
	8481' - 8485'	7651' - 7655'
	8408' - 8412'	7326' - 7330'
	8364' - 8368'	7165' - 7169'
	8335' - 8339'	6922' - 6926'
	8192' - 8196'	6889' - 6893'
	8026' - 8030'	6629' - 6633'

Total: 24 zones, 96 shots, .4" hole diameter

9/22/77 - Reperf:

8811' - 8815'	8734' - 8738'
8780' - 8784'	8688' - 8792'

1-11/16" ceramic jet, 4 zones, 32 shots

COLORADO INTERSTATE GAS COMPANY

ONE-POINT BACK PRESSURE TEST FOR NATURAL GAS WELLS

COMPANY: CIG EXPLORATION INC				LEASE: CIGE 1-22-10-22				WELL NUMBER:			
FIELD: NATURAL BUTTES AREA				PRODUCING FORMATION: WASATCH SA				COUNTY UINTAH COUNTY			
SECTION: 22		TOWNSHIP: 10S		RANGE: 22E		PIPELINE CONNECTION: COLORADO INTERSTATE GAS COMPANY					
CASING (O.D.): 4.500		WT./FT.: 13.5		I.D.: 		SET AT: 9317		PERF.: 6620		TO: 8882	
TUBING (O.D.): 2.375		WT./FT.: 4.7		I.D.: 1.995		SET AT: 8471		PERF.: 		TO: 	
PAY FROM:		TO:		L: 8471		G(RAW GAS): .672		GL: 5692.512		de: 1.9950	
PRODUCING THRU: TUBING		STATIC COLUMN: YES		PACKER (S) SET @: 8573		G (SEPARATOR): .672		METER RUN SIZE: 2.067 (FLANGE)		ATTRIBUTABLE ACREAGE:	

DATE OF FLOW TEST:		9-26-78		9-29-78		OBSERVED DATA		
ORIFICE SIZE INCHES	METER DIFFERENTIAL RANGE	METER PRESSURE	DIFFERENTIAL ROOTS	FLOWING TEMPERATURE t	CASING WELLHEAD PRESSURE		TUBING WELLHEAD PRESSURE	
					p.s.i.g.	p.s.i.a.	p.s.i.g.	p.s.i.a.
1.000	100	473.0	6.40	75	2071.0	2084.0	1943.0	1956.0

RATE OF FLOW CALCULATIONS								
24 HOUR COEFFICIENT	METER PRESSURE p.s.i.a.	hw	P _{mhw}	EXTENSION $\sqrt{P_{mhw}}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R MCFD
5073.0	486.0	40.96	19906.560	141.091	1.220	.9859	1.0489	903.01

DATE OF SHUT-IN TEST:		9-26-78		PRESSURE CALCULATIONS			
SHUT-IN PRESSURE:		2125.0		2357.0		13.000	
CASING: 2125.0 p.s.i.g.		TUBING: 2357.0 p.s.i.g.		BAR. 14.4 p.s.i.		P _c 2370.0 p.s.i.a.	
P _w p.s.i.a.	P _w ²	P _r	T _r	Z			
2084.0	4343056.0						

POTENTIAL CALCULATIONS		
(1) $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2} =$ 4.4094	(2) $\left[\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2} \right]^n =$ 2.5240	(3) $R \left[\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2} \right]^n =$ 2279
CALCULATED WELLHEAD OPEN FLOW 2279 MCFD @ 14.65		
BASIS OF ALLOCATION:		SLOPE n: .624 (Average)
APPROVED BY COMMISSION:		CHECKED BY:
CONDUCTED BY:		

I, _____, BEING FIRST DULY SWORN ON OATH, STATE THAT I AM FAMILIAR WITH FACTS AND FIGURES SET FORTH IN THIS REPORT, AND THAT THE REPORT IS TRUE AND CORRECT.

SIGNATURE AND TITLE OF AFFIANT

COMPANY

SUBSCRIBED AND SWORN TO BEFORE ME THIS _____ DAY OF _____, 19 _____

MY COMMISSION EXPIRES _____

NOTARY PUBLIC

July 3, 1978

MEMO TO FILE:

Re: CIGE

Well No. Natural Buttes Unit 1-22-10-22
Sec. 22, T. 10S., R. 22E.
Uintah County, Utah

The spudding-in of the above named well was reported to this office on July 5, 1978. This well was spudded-in at 12:00 p.m. on July 3, 1978. Anderson Drilling Company is the contractor, Rig #10 is on location.

PATRICK L. DRISCOLL
CHIEF PETROLEUM ENGINEER
DIVISION OF OIL, GAS, & MINING

PLD/ksw

105
37

COLORADO INTERSTATE GAS COMPANY
WELL TEST DATA FORM
STATE COPY

FIELD CODE 01-81			FIELD NAME NATURAL BUTTE, UT						OPERATOR CODE 22		OPERATOR NAME CIG EXPLORATION INC						WELL NAME CIG 1-22-10-22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
WELL CODE 25341		SECT. 22		LOCATION TWN/BLK 10S		RGE/SUR. 22E		PANHANDLE/REDCAVE SEQ. NUMBER K-FACTOR		FORMATION WASATCH SA		FLOW TEST		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
WELL ON (OPEN)			DATE (COMP.)						ORIFICE SIZE		METER RUN SIZE		COEFFICIENT		GRAVITY (SEP.)		METER DIFF RANGE		METER PRESSURE		DIFFERENTIAL ROOTS		METER TEMP.		WELL HEAD TEMP.		FLOWING TBG/CSG PRESSURE		STATIC TSG/CSG PRESSURE		FLOWING STRING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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COLORADO INTERSTATE GAS COMPANY
WELL TEST DATA FORM

STATE COPY

FIELD CODE 560-01-11		FIELD NAME NATURAL BUTTES				OPERATOR CODE 2200		OPERATOR NAME CIG EXPLORATION INC				WELL NAME CIGE 1-22-10-22			
CODE 25341	SECT 22	LOCATION TWN/SH/BLK 10S 22E	RGE/SUR 22E	PANHANDLE/REDCAVE SEQ. NUMBER 22E		FORMATION WASATCH SA		FLOW TEST 1							

WELL ON (OPEN)						FLOW TEST																									
DATE (COMP.)						ORIFICE SIZE		METER RUN SIZE		COEFFICIENT		GRAVITY (SEP.)		METER DIFF. RANGE		METER PRESSURE		DIFFERENTIAL ROOTS		METER TEMP.		WELL HEAD TEMP.		FLOWING TBG/CSG PRESSURE		STATIC TSG/CSG PRESSURE		FLOWING STRING TUBING		CASING	
MO.	DAY	YR.	MO.	DAY	YR.	23	27	28	32	33	38	39	42	43	45	46	51	52	55	56	58	59	61	62	67	68	73	74	75		
X X	X X	X X	X X	X X	X X	X X	X X X	X X	X X X		X X X X X	X	X	X X X	X X X	X X X X X	X		X X	X X	X X X	X X X	X X X X X	X	X X X X X	X	X X X X X	X	X		
									2	067					100																

WELL-OFF (SHUT-IN)						SHUT-IN TEST				SLOPE		EFFECTIVE DIAMETER		EFFECTIVE LENGTH		GRAVITY (RAW GAS)		EST CSG PRESS		EST TBG PRESS		TO THE BEST OF MY KNOWLEDGE THE ABOVE DATA IS CORRECT. CIG: <u>H. K. Nash</u> OPERATOR: _____ COMMISSION: _____	
PRESSURE TAKEN DATE						CASING PRESSURE (PSIG)		TUBING PRESSURE (PSIG)															
MO.	DAY	YR.	MO.	DAY	YR.	23	28	29	34	35	38	39	44	45	49	50	53	54	55				
X X	X X	X X	X X	X X	X X	X X X X X	X	X X X X X	X	X	X X X	X X	X X X X	X X X X X	X	X X X	E	E					
											624	1	9950	8471									

REMARKS: Temp. Disc.									
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COLORADO INTERSTATE GAS COMPANY

WELL TEST DATA FORM

STATE COPY

WELL CODE 25341			FIELD NAME NATURAL HUTTES AREA										OPERATOR CODE 2200		OPERATOR NAME CIG EXPLORATION INC										WELL NAME CIG 1-22-10-22											
WELL CODE 3			LOCATION TWN/BLK			RGE/SUR			PANHANDLE/REDCAVE SEQ. NUMBER			K-FACTOR			FORMATION WASATCH SA FLOW TEST										1											
WELL ON (OPEN)									FLOW TEST																											
DATE (COMP.)									ORIFICE SIZE		METER RUN SIZE		COEFFICIENT		GRAVITY (SEP.)		METER DIFF. RANGE		METER PRESSURE		DIFFERENTIAL ROOTS		METER TEMP.		WELL HEAD TEMP.		FLOWING TBG/CSG PRESSURE		STATIC TSG/CSG PRESSURE		FLOWING STRING					
MO.	DAY	YR.	MO.	DAY	YR.																															
11-12	13-14	15-16	17-18	19-20	21-22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48					
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
WELL-OFF (SHUT-IN)									SHUT-IN TEST										TO THE BEST OF MY KNOWLEDGE THE ABOVE DATA IS CORRECT.																	
PRESSURE TAKEN									DATE		CASING PRESSURE (PSIG)		TUBING PRESSURE (PSIG)		SLOPE		EFFECTIVE DIAMETER		EFFECTIVE LENGTH		GRAVITY (RAW GAS)		EST CSG PRESS		EST TBG PRESS											
MO.	DAY	YR.	MO.	DAY	YR.																															
11-12	13-14	15-16	17-18	19-20	21-22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48					
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
REMARKS:										Temp Disconnect																										

COLORADO INTERSTATE GAS COMPANY
WELL TEST DATA FORM

STATE COPY

FIELD CODE 0-01-11			FIELD NAME NATURAL BUTTES			OPERATOR CODE 2200		OPERATOR NAME CIG EXPLORATION INC			WELL NAME CIG 1-22-10-22		
WELL CODE 3341		SECT. 22	LOCATION TWN/SH/BLK 10S 22E		RGE/SUR. 22E	PANHANDLE/REDCAVE SEQ. NUMBER		K-FACTOR		FORMATION SASATCH SA		FLOW TEST	

WELL ON (OPEN)										FLOW TEST																			
DATE (COMP.)			ORIFICE SIZE		METER RUN SIZE		COEFFICIENT		GRAVITY (SEP.)		METER DIFF. RANGE		METER PRESSURE		DIFFERENTIAL ROOTS		METER TEMP.		WELL HEAD TEMP.		FLOWING TBG/CSG PRESSURE		STATIC TSG/CSG PRESSURE		FLOWING STRING TUBING		CASING		
MO.	DAY	YR.	MO.	DAY	YR.																								
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

WELL OFF (SHUT-IN)						SHUT-IN TEST				SLOPE		EFFECTIVE DIAMETER		EFFECTIVE LENGTH		GRAVITY (RAW GAS)		EST CSG PRESS		EST TBG PRESS		TO THE BEST OF MY KNOWLEDGE THE ABOVE DATA IS CORRECT. CIG: <u>H. K. Nash</u> OPERATOR: _____ COMMISSION: _____	
PRESSURE TAKEN			DATE			CASING PRESSURE (PSIG)		TUBING PRESSURE (PSIG)															
MO.	DAY	YR.	MO.	DAY	YR.																		
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	E	E		

REMARKS:									
This well is on temporary disconnect									

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-01198-B	
2. NAME OF OPERATOR CIG EXPLORATION, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR P. O. BOX 749 - DENVER, COLORADO 80201		7. UNIT AGREEMENT NAME NATURAL BUTTES UNIT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1028' FWL & 1610' FSL - SECTION 22, T10S, R22E		8. FARM OR LEASE NAME NATURAL BUTTES	
14. PERMIT NO.		9. WELL NO. CIGE 1-22-10-22	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,325'		10. FIELD AND POOL, OR WILDCAT BITTER CREEK FIELD	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 22, T10S, R22E	
		12. COUNTY OR PARISH UINTAH	13. STATE UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

IT IS INTENDED TO PLUG AND ABANDON THE ABOVE CAPTIONED WELL AS PER ATTACHED PROCEDURE.

VERBAL APPROVAL WAS RECEIVED JUNE 23, 1982 BY ASSAD RAFFOUL, USGS.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE:
BY:

18. I hereby certify that the foregoing is true and correct.

SIGNED <u>W. J. GOODEN</u>	TITLE <u>PRODUCTION ENGINEER</u>	DATE <u>JUNE 24, 1982</u>
(This space for Federal or State office use)		
APPROVED BY <u> </u>	TITLE <u> </u>	DATE <u> </u>
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

P&A PROCEDURE

CIGE 1-22-10-22
NW SW SECTION 22-T10S-R22E
NATURAL BUTTES UNIT
UINTAH COUNTY, UTAH

APRIL 7, 1982

WELL DATA

Location: 1028' FWL, 1016' FSL Section 22-T10S-R22E

Elevation: 5325' UnGr, 5342' KB

TD: 9317', PBTD: 8450' (BP)

Completion Date: 4-10-77

Last Production: 9-78

Cumulative Production: 38,600 MCF

Perforations: 1 JSPF w/3-1/8" casing gun as follows:

6629' - 33'	7859' - 63'	8408' - 12'
6889' - 93'	7915' - 19'	8481' - 85'
6922' - 26'	7948' - 52'	8566' - 70'
7165' - 69'	7976' - 80'	8688' - 92'
7326' - 30'	8026' - 30'	8734' - 38'
7651' - 55'	8192' - 96'	8780' - 84'
7706' - 10'	8335' - 39'	8811' - 15'
7752' - 56'	8364' - 68'	8878' - 82'

TOTAL: 96 HOLES

Reperf w/1-11/16" thru-tubing gun 1 JSPF

8688' - 92'	8780' - 84'
8734' - 38'	8811' - 15'

TOTAL: 32 HOLES

Tubing: 2-3/8" 4.7# N-80 hung at 8253'

Casing: 13-3/8" set at 92' w/125 sx
8-5/8" 24# K-55 set at 2500' w/250 sx
4-1/2" 13.5# N-80 set at 9317' w/2050 sx. Top of cement at 4415'
from logs.

Formation tops: UINTAH - surface
GREEN RIVER - 1190'
WASATCH - 4078'
MANCOS - 9015'

P&A PROCEDURE
CIGE 1-22-20-22
NW SW SECTION 22-T10S-R22E
NATURAL BUTTES UNIT
UINTAH COUNTY, UTAH
APRIL 7, 1982
continued:

PROCEDURE

1. Notify USGS in Salt Lake City 24 hours prior to commencement of operations.
2. MIRUSU.
3. Kill well. ND tree. NU BOP's.
4. RIH to \pm 8400' and displace hole w/9.2 ppg drilling mud.
5. Set cement plug inside $4\frac{1}{2}$ " casing across perforations from 8400' to 6500' w/80 sx class "G" cement w/10% bentonite (Yield 2.08 ft³/sx).
6. POOH to 4600' and set 250' plug inside $4\frac{1}{2}$ " casing opposite top of cement from 4600' to 4350' w/20 sx class "G" cement.
7. POOH w/tubing, cut $4\frac{1}{2}$ " casing @ 2500', circulate bottoms up w/9.2 ppg drilling mud and pull $4\frac{1}{2}$ " casing w/service unit.
8. TIH to 2600' and set 200' cement plug from 2600' to 2400' across $4\frac{1}{2}$ " casing stub & shoe of 8-5/8" casing w/40 sx class "G" cement.
9. POOH to 1300' perf 8-5/8" casing @ 1400' and set 200' cement plug from 1500' to 1300' across top of Green River oil shale by RIH to 1500', spotting 165 sx and squeezing 100 sx through perfs @ 1400'
10. POOH to 65' and set surface plug to 3' w/20 sx class "G" cement.
11. POOH w/tubing and set surface plug from 100' to 3' in annulus between 13-3/8" and 8-5/8" casing by bullheading 35 sx class "G" cement down annulus.
12. Remove wellhead and cut off all casing at least 3' below ground. Set dry hole marker in 8-5/8" casing.
13. Clean up and restore location to original grade.
14. Notify USGS to make final inspection.
NOTE: Cement required to P&A = .80 sx class "G" and 255 sx class "G" w/bentonite.

PREPARED BY:

WJ Gooden
W. J. GOODEN, PRODUCTION ENGINEER

DATE:

6/23/82

APPROVED BY:

FR Midkiff
FRANK MIDKIFF, DISTRICT PRODUCTION MANAGER

DATE:

6-24-82

PRODUCING STATUS:
WELLHEAD WORKING PRESSURE:

KB ELEVATION: 5342' (17' KB)

FORM. TOPS

DOWNHOLE SCHEMATIC

LEASE: CIGET #1-22
WELL #: CIGET #1-22-10-22
FIELD: Natural Buttes
LOCATION: Sect 22-10S-22E
COUNTY/STATE: Uintah Co, Utah
TD: 9317'
PBD: 8450' (CIBP)
PERFS: 6629-8882

PROD. FORM(S): Messavorda

DATE: 3/10/82 BY: WJG

ITEM, QUANTITY, DEPTHS, GRADE, WEIGHT, CPLG, Etc.	O.D.	I.D.
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HOLE SIZE: 17 1/4"

SURFACE CASING:

O.D. 13 3/8", WEIGHT(S) 54 #
GRADE(S) K-55, CPLG
SET AT 92' W/ 125 SX

HOLE SIZE: 11"

Intermediate casing - 8 5/8", 24 #
K-55 set at 2500' w/ 250 SX.
Calculated cement top @ 1500'.

Hole Size: 7 7/8"

Production Casing: 4 1/2" 13.5 #
N-80 set at 9317' w/ 2050 SX.
Cement top @ 4415' from logs.

Tubing - 2 3/8" 4.7 # N-80 hung
at 8253'

Perforations - 6629'-8878'
See procedure - Total: 128 Holes

Top Green
River 1190'

Est. Top
Cement 1500'

2500'

Top Wasatch 4078'

Cement top 4415'

BP 8450'

Top Mancos 9015'

TO 9317'

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
CIG EXPLORATION, INC.

3. ADDRESS OF OPERATOR
P. O. BOX 749, DENVER, CO 80201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1028' FWL & 1610' FSL
AT TOP PROD. INTERVAL: SAME
AT TOTAL DEPTH: SAME

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☒

5. LEASE

U-01198-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
NATURAL BUTTES UNIT

8. FARM OR LEASE NAME
NATURAL BUTTES UNIT

9. WELL NO.
CIGE 1-22-10-22

10. FIELD OR WILDCAT NAME
BITTER CREEK FIELD

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SECTION 22-T10S-R22E

12. COUNTY OR PARISH
UINTAH

13. STATE
UTAH

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5325'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

THE ABOVE SUBJECT WELL WAS P&A'd ON JULY 12, 1982. SEE ATTACHED CHRONOLOGICAL

RECEIVED

JUL 21 1982

DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W. J. Gooden TITLE PRODUCTION ENGINEER DATE JULY 13, 1982
W. J. GOODEN

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

CIGE 1-22-10-22
NATURAL BUTTES UNIT
UINTAH COUNTY, UTAH

P & A WELL
AFE: 19919

7-09-82 PREP TO RUSU & P&A WELL. Road rig to location from NBU #5. CWC: \$1950

7-10-82 PREP TO CUT CSG. @ 2500'. RUSU. Kill well by circ w/9.8 ppg drilling mud. ND tree. NU BOP's. RIH 5 jts to 8400'. WO Dowell. Set plug across perfs from 8400' to 6500' w/80 sx class "G" cement w/10% bentonite. POOH to 4600' WO cement ½ hr. & set plug from 4600' to 4350' across top of Wasatch w/20 sx class "G" cement. POOH tbg. SI well CWC: \$12,506

7-11-82 PREP TO CUT CSG & SET DRY HOLE MARKER. ND BOP's & tbg spool weld 4½" x 5' long pup on 4½" csg. Remove slip w/90,000 lbs pull. RU McCullough & cut 4½" csg @ ± 2500' while pulling w/3000 lbs. RU Parrish Oil Field tools & pull 77 jts 13.5# N-80 csg. (+ 2470' csg) NU BOP's. RIH to 2600' & set 200' plug from 2600' to 2400' across csg stub w/40 sx class "G" cement. POOH to 1300'. Perfs 4 JSPF w/thru-tubing gun at 1400'. RIH to 1500' & set 200' plug inside & outside of 8-5/8" csg. by spotting 165 sx class "G" & squeeze 100 sx through perfs @ 1400'. POOH to 65' & set surface plug from 65' to 3' w/20 sx class "G" cement. POOH w/tbg & set surface plug in 13-3/8" x 8-5/8" csg-csg annulus w/35 sx class "G" cement. No pressure while pumping. CWC: \$24901

7-12-82 WELL P&A'd 7-12-82/RESTORING LOCATION. ND BOP's RDSU. Cut off csg. & set dry hole marker. Release SU & road to Roosevelt. CWC: \$28,151